Aspire one 521 Series
Service Guide

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Revision History

Please refer to the table below for the updates made on this service guide.

Date	Chapter	Updates

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Conventions

The following conventions are used in this manual:

SCREEN MESSAGES	Denotes actual messages that appear on screen.
NOTE	Gives bits and pieces of additional information related to the current topic.
WARNING	Alerts you to any damage that might result from doing or not doing specific actions.
CAUTION	Gives precautionary measures to avoid possible hardware or software problems.
IMPORTANT	Reminds you to do specific actions relevant to the accomplishment of procedures.

NOTE: This symbol where placed in the Service Guide designates a component that should be recycled according to the local regulations.

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Preface

Before using this information and the product it supports, please read the following general information.

1. This Service Guide provides you with all technical information relating to the BASIC CONFIGURATION decided for Acer's "global" product offering. To better fit local market requirements and enhance product competitiveness, your regional office MAY have decided to extend the functionality of a machine (e.g. add-on card, modem, or extra memory capability). These LOCALIZED FEATURES will NOT be covered in this generic service guide. In such cases, please contact your regional offices or the responsible personnel/channel to provide you with further technical details.
2. Please note WHEN ORDERING FRU PARTS, that you should check the most up-to-date information available on your regional web or channel. If, for whatever reason, a part number change is made, it will not be noted in the printed Service Guide. For ACER-AUTHORIZED SERVICE PROVIDERS, your Acer office may have a DIFFERENT part number code to those given in the FRU list of this printed Service Guide. You MUST use the list provided by your regional Acer office to order FRU parts for repair and service of customer machines.

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System Specifications

Features

Below is a brief summary of the computer's many features:

Operating System

- Genuine Windows® 7 Home Basic 32-bit (China only)
- Genuine Windows® 7 Starter 32-bit

Platform

- AMD V Series processor V105 (512 KB L2 cache, 1.20 GHz, 800 MHz FSB, 9 W)
- AMD M880G Chipset

System Memory

- Single-channel DDR3 SDRAM support with one soDIMM module
- Up to 1 GB of DDR3 system memory (for Windows® 7 Starter for small notebook PCs)
- Up to 2 GB of DDR3 system memory (for other operating systems)

Display

- 10.1" SD 1024 x 600 (WSVGA) pixel resolution, high-brightness (200-nit) LED-backlit TFT LCD
- Mercury-free, environment friendly
- Super-slim design

Graphics

- ATI Radeon™ HD 4225 Graphics with 384 MB of dedicated system memory, supporting Unified Video Decoder 2 (UVD2), OpenGL® 2.0, OpenEXR High Dynamic-Range (HDR) technology, Shader Model 4.1, Microsoft® DirectX® 10.1
- Dual independent display support
- 16.7 million colors
- External resolution / refresh rates:
  - VGA port up to 2456 x 1536: 60 Hz
  - HDMI™ port up to 1920 x 1080: 60 Hz
- MPEG-2/DVD decoding
- WMV9 (VC-1) and H.264 (AVC) decoding
- HDMI™ (High-Definition Multimedia Interface) with HDCP (High-bandwidth Digital Content Protection) support

Color Options

- Antique Brass

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- Onyx Black

Storage subsystem

- Hard disk drive:
  - 2.5" (9.5 mm) 160/250 GB
- Multi-in-1 card reader, supporting:
  - Secure Digital™ (SD) Card, MultiMediaCard™ (MMC), Reduced-Size Multimedia Card (RS-MMC), Memory Stick™ (MS), Memory Stick PRO™ (MS PRO), xD-Picture Card™ (xD)
  - Storage cards with adapter: miniSD™, microSD™, Memory Stick Duo™, Memory Stick PRO Duo™

Audio subsystem

- High-definition audio support
- Two built-in stereo speakers
- MS-Sound compatible
- Built-in digital microphone

Optical Media Drive

- 8X DVD-Super Multi double-layer drive:·
  - Read: 24X CD-ROM, 24X CD-R, 24X CD-RW, 8X DVD-ROM, 8X DVD-R, 8X DVD+R, 6X DVD-ROM DL, 6X DVD-R DL, 6X DVD+R DL, 6X DVD-RW, 6X DVD+RW, 5X DVD-RAM·
  - Write: 24X CD-R, 16X CD-RW, 8X DVD-R, 8X DVD+R, 4X DVD-R DL, 4X DVD+R DL, 6X DVD-RW, 8X DVD+RW, 5X DVD-RAM

Communication

- Webcam
- Acer Video Conference featuring:
  - Acer Crystal Eye webcam with 1280 x 1024 resolution
  - Acer Video Conference Manager software, featuring Video Quality Enhancement (VQE) technology, supporting 640 x 480 resolution online video calls
- Wireless and networking
- WLAN:
  - Acer InviLink™ Nplify™ 802.11b/g/n Wi-Fi CERTIFIED™
  - Acer InviLink™ 802.11b/g Wi-Fi CERTIFIED™ (available only in Russia, Pakistan, Ukraine)
  - Supporting Acer SignalUp™ wireless technology
- WPAN: Bluetooth® 3.0+HS
- WWAN: UMTS/HSPA at 850/900/1900/2100 MHz and quad-band GSM/GPRS/EDGE at 850/900/1800/1900 MHz, upgradable to 7.2 Mb/s HSDPA and 5.7 Mb/s HSUPA
- LAN: Fast Ethernet

Privacy control

- BIOS user, supervisor, HDD passwords,
- Kensington lock slot

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Dimensions and Weight

- 259 (W) x 189.7 (D) x 23.2/28.3 (H) mm (10.20 (W) x 7.47 (D) x 0.91/1.11 (H) inches)
- 1.25 kg (2.76 lbs.)2 (for models with 6-cell 5800 mAh battery pack)

Power Adapter and Battery

- Product Safety Electric Appliance and Materials (PSE) certified for battery pack
- 2-pin 40 W Acer MiniGo AC adapter:
  - 93.2 (W) x 48 (D) x 32.2 (H) mm (3.66 x 1.88 x 1.26 inches)
  - 180 g (0.39 lbs.) with 250 cm DC cable
- Standard:
  - 48 W 4400 mAh 6-cell Li-ion battery pack
- High-capacity:
  - 63 W 5600 mAh 6-cell Li-ion battery pack
- Battery life: 6 hours with standard battery pack; 7.5 hours with high-capacity battery pack.

Special Keys and Controls

- Keyboard:
  - 84-/85-/88-key Acer FineTip keyboard, 93% of full-size smooth typing keyboard, with international language support
- Touchpad:
  - Multi-gesture touchpad, supporting two-finger scroll, pinch, rotate, flip

I/O Ports

- Multi-in-1 card reader (SD™, MMC, MS, MS PRO, xD)
- Three USB 2.0 ports
- HDMI™ port with HDCP support
- External display (VGA) port
- Headphone/speaker/line-out jack
- Microphone-in jack
- Ethernet (RJ-45) port
- DC-in jack for AC adapter

Eco standards

- ENERGY STAR®
- WEEE
- RoHS
- Mercury free

Accessories

- In-box:
  - Protective bag
  - 6-cell Li-ion battery pack

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- Optional:
  - 1 GB / 2 GB DDR3 1066 MHz soDIMM module·
  - 6-cell Li-ion battery pack·
  - 2-pin 40 W AC adapter
  - External USB HDD
  - External USB optical disc drive

Warranty

- One-year International Travelers Warranty (ITW)

Environment

- Temperature:
  - Operating: 5°C to 35°C
  - Non-operating: 20°C to 65°C
- Humidity (non-condensing):
  - Operating: 20% to 80%
  - Non-operating: 20% to 80%

NOTE: The specifications listed above are for reference only. The exact configuration of the PC depends on the model purchased.

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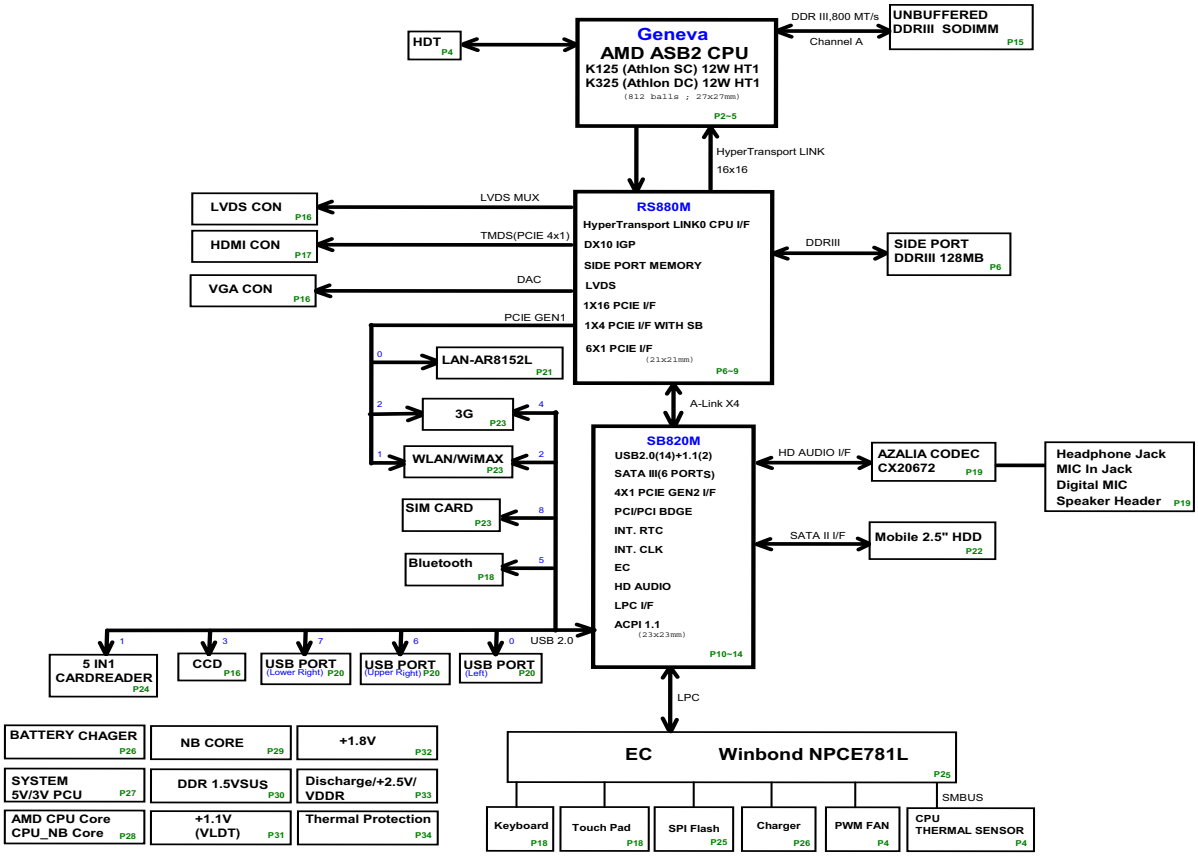
System Block Diagram



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Notebook Tour

This section provides an overview of the features and functions of the notebook.

Top View

#	Icon	Item	Description
1		Acer Crystal Eye webcam	Web camera for video communication. (only for certain models)
2		Display screen	Also called Liquid-Crystal Display (LCD), displays computer output (configuration may vary by model).
3		Microphone	Internal microphone for recording sound.
4		Power button/	Turns the computer on and off.
5		Keyboard	For entering data into your computer

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#	Icon	Item	Description
6		Power*	Indicates the computer's power status.
		Battery*	Indicates the computer's battery status. 1. Charging: The light shows amber when the light is charging. 2. Fully charged: the light shows blue when in AC mode.
		HDD indicator	Indicates when the HDD is active.
		Communication indicator*	Indicates the status of the 3G/Wireless LAN communication.

Blue light on	Orange light on	Not lit
3G on / WiFi on 3G on / WiFi off	3G off / WiFi on	3G off / WiFi off

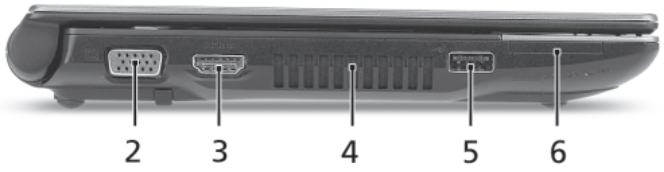
7		Click buttons (left, and right)	The left and right buttons function like the left and right mouse buttons.
8		Touchpad	Touch-sensitive pointing device which functions like a computer mouse.
9		Palmrest	Comfortable support area for your hand when using the computer.

NOTE: *Front panel indicators are visible even when the computer cover is closed.

Closed Front View

#	Icon	Item	Description
1		Status Indicators	Light-Emitting Diodes (LED) that light up to show the status of the computer's functions and components.

Left View



#	Icon	Item	Description
2		External display (VGA) port	Connects to a display device (e.g. external, LCD monitor, LCD projector).
3	HDMI	HDMI port	Supports high definition digital video connections.
4		Ventilation slots	Enable the computer to stay cool, even after prolonged use.

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#	Icon	Item	Description
5		USB 2.0 port	Connects to USB 2.0 devices (e.g., USB mouse, USB camera).
6		Multi-in-1 card reader	Accepts Secure Digital (SD), MultiMediaCard (MMC), Memory Stick (MS), Memory Stick PRO (MS PRO), xDPicture Card (xD). Note: Push to remove/install the card. Only one card can operate at any given time.

Right View

#	Icon	Item	Description
7		Microphone jack	Accepts inputs from external microphones.
		Headphones/ speaker/line-out jack	Connects to audio line-out devices (e.g., speakers, headphones).
8		USB 2.0 port	Connects to USB 2.0 devices (e.g., USB mouse, USB camera).
9		DC-in jack	Connects to an AC adapter.
10		Kensington lock slot	Connects to a Kensington-compatible computer security lock.
11		Ethernet RJ-45) port	Connects to an Ethernet 10/100/1000-based network.

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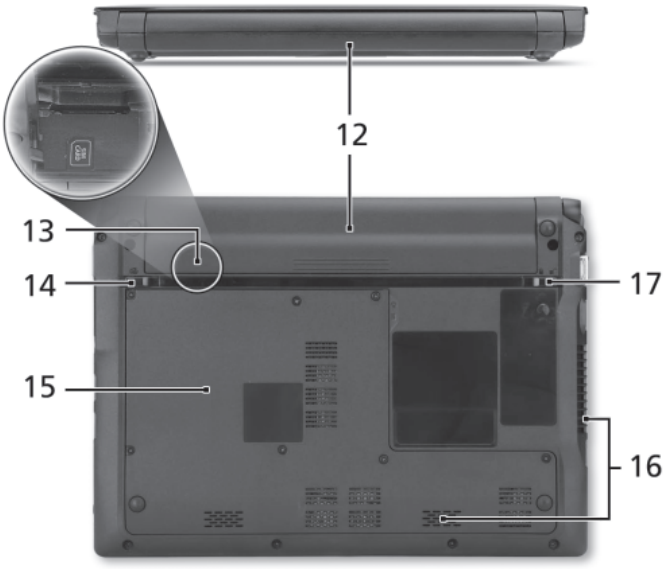
Base View



#	Icon	Item	Description
12		Battery bay	Houses the computer's battery pack. Note: The battery shown is for reference only. Your PC may have a different battery depending on the model purchased.
13		3G SIM card slot	Accepts a 3G SIM card for 3G connectivity. (only for certain models)
14		Battery release latch	Releases the battery for removal.
15		Hard disk bay	Houses the computer's hard disk (secured with screws)
		Memory compartment	Houses the computer's main memory.
16		Ventilation slots and cooling fan	Enable the computer to stay cool, even after prolonged use. Note: Do not cover or obstruct the opening the fan.
17		Battery lock	Locks the battery in position

Indicators

The computer has several easy-to-read status indicators. The battery indicator is visible even when the computer cover is closed.

Icon	Function	Description
	Power	Indicates the computer's power status.
	Battery	Indicates the computer's battery status. 1. Charging: The light shows amber when the light is charging. 2. Fully charged: the light shows blue when in AC mode.
	HDD indicator	Indicates when the HDD is active.
	Communication indicator*	Indicates the status of the 3G/Wireless LAN communication.

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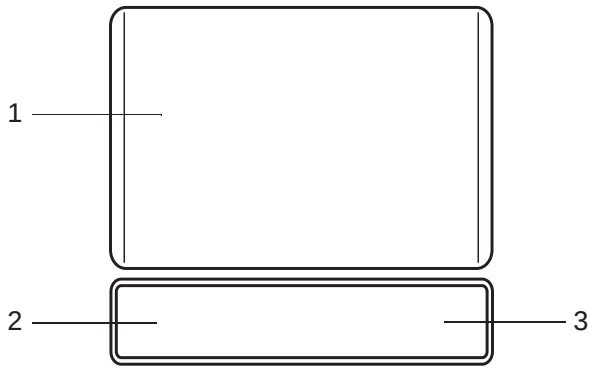
TouchPad Basics

The following items show you how to use the TouchPad:



- Move your finger across the TouchPad (1) to move the cursor.
- Press the left (2) and right (3) buttons located beneath the TouchPad to perform selection and execution functions. These two buttons are the equivalent of the left and right buttons on a mouse. Tapping on the TouchPad is the same as clicking the left button.

Function	Left Button (2)	Right Button (3)	Main TouchPad (1)
Execute	Quickly click twice.		Tap twice (at the same speed as double-clicking a mouse button).
Select	Click once.		Tap once.
Drag	Click and hold, then use finger on the TouchPad to drag the cursor.		Tap twice (at the same speed as double-clicking a mouse button); rest your finger on the TouchPad on the second tap and drag the cursor.
Access context menu		Click once.	

NOTE: When using the TouchPad, keep it - and your fingers - dry and clean. The TouchPad is sensitive to finger movement; hence, the lighter the touch, the better the response. Tapping too hard will not increase the TouchPad's responsiveness.

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Using the Keyboard

Your computer has a close-to-full-sized keyboard and an embedded numeric keypad, separate cursor, lock, function and special keys.

Lock Keys and embedded numeric keypad

The keyboard has three lock keys which you can toggle on and off.

Lock key	Description
Caps Lock	When Caps Lock is on, all alphabetic characters typed are in uppercase.
Num Lock	When Num Lock is on, the embedded keypad is in numeric mode. The keys function as a calculator (complete with the arithmetic operators +, -, *, and /). Use this mode when you need to do a lot of numeric data entry. A better solution would be to connect an external keypad.
Scroll Lock **<Fn> + <F12>**	When Scroll Lock is on, the screen moves one line up or down when you press the up or down arrow keys respectively. Scroll Lock does not work with some applications.

The embedded numeric keypad functions like a desktop numeric keypad. It is indicated by small characters located on the upper right corner of the keycaps. To simplify the keyboard legend, cursor-control key symbols are not printed on the keys.

Desired access	Num Lock on	Num Lock off
Number keys on embedded keypad	Type numbers in a normal manner.	
Cursor-control keys on embedded keypad	Hold <Shift> while using cursor-control keys.	Hold <Fn> while using cursor-control keys.
Main keyboard keys	Hold **<Fn>** while typing letters on embedded keypad.	Type the letters in a normal manner.

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Windows Keys

The keyboard has two keys that perform Windows-specific functions.

Key	Description
Windows key	Pressed alone, this key has the same effect as clicking on the Windows Start button; it launches the Start menu. It can also be used with other keys to provide a variety of functions: **<⊞>:** Open or close the Start menu **<⊞> + <D>:** Display the desktop **<⊞> + <E>:** Open Windows Explore **<⊞> + <F>:** Search for a file or folder **<⊞> + <L>:** Lock your computer (if you are connected to a network domain), or switch users (if you're not connected to a network domain) **<⊞> + <M>:** Minimizes all windows **<⊞> + <R>:** Open the Run dialog box **<⊞> + <U>:** Open Ease of Access Center **<⊞> + <BREAK>:** Display the System Properties dialog box **<⊞> + <TAB>:** Cycle through programs on the taskbar **<CTRL> + <⊞> + <F>:** Search for computers (if you are on a network) **Note:** Depending on your edition of Windows 7, some shortcuts may not function as described.
Application key	This key has the same effect as clicking the right mouse button; it opens the application's context menu.

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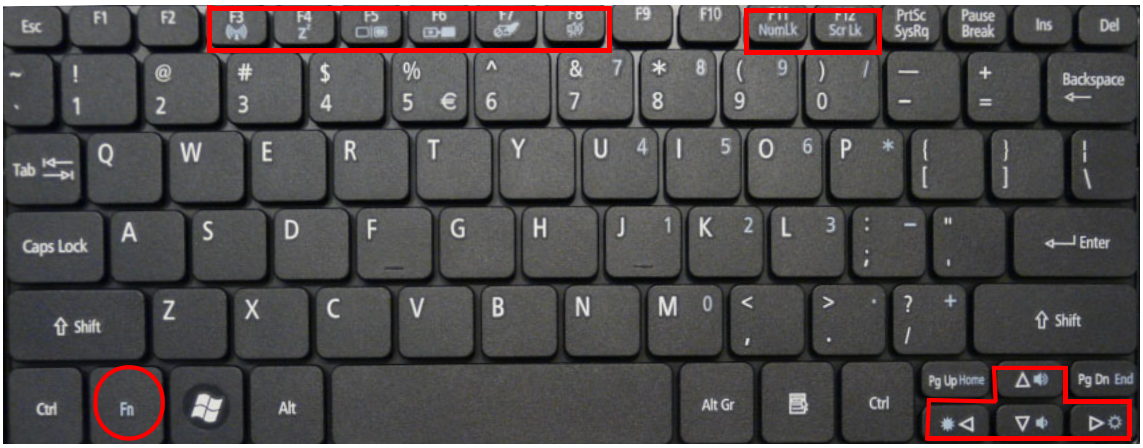
Hot Keys

The computer employs hotkeys or key combinations to access most of the computer's controls like screen brightness and volume output.



To activate hotkeys, press and hold the **<Fn>** key before pressing the other key in the hotkey combination.

Hotkey	Icon	Function	Description
<Fn> + <F3>		Wireless communication switch	Enables/disables the Wireless function.
<Fn> + <F4>		Sleep	Puts the computer in Sleep mode.
<Fn> + <F5>		Display toggle	Switches display output between the display screen, external monitor (if connected) and both.
<Fn> + <F6>		Screen blank	Turns the display screen backlight off to save power. Press any key to return.
<Fn> + <F7>		Touchpad toggle	Turns the touchpad on and off.
<Fn> + <F8>		Speaker toggle	Turns the speakers on and off.
<Fn> + <▷>		Brightness up	Increases the screen brightness.
<Fn> + <◁>		Brightness down	Decreases the screen brightness.
<Fn> + <△>		Volume up	Increases the sound volume.
<Fn> + <▽>		Volume down	Decreases the sound volume.

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Special Keys

You can locate the Euro symbol and the US dollar sign at the upper-center and/or bottom-right of your keyboard.

The Euro symbol

1. Open a text editor or word processor.
2. Hold <Alt Gr> and then press the <5> key at the upper-center of the keyboard.

NOTE: Some fonts and software do not support the Euro symbol. See **www.microsoft.com/typography/faq/faq12.htm** for more information.

The US dollar sign

1. Open a text editor or word processor.
2. Hold **<Shift>** and then press the **<4>** key at the upper-center of the keyboard.

NOTE: This function varies according to the language settings.

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Processor

Item	Specification
CPU	AMD Geneva (V105 CPU)
Type	Single Core
CPU Package	ASB2 package
On-die Cache	512 KB L2
Front Side Bus	2.0 GT/s HyperTransport link

Processor Specifications

Item	CPU Speed	Cores	Bus Speed	Cache Size	Package	Core Voltage	Acer P/N

CPU Fan True Value Table (UMA)

CPU Temperature (Celsius)	Fan Speed (RPM)	SPL Spec (dBA)
43	2700	28
53	3200	31
62	3500	34
72	3900	37
82	4200	37

Throttling 50%: On= 100°C; OFF=85°C

OS shut down at 105°C; H/W shut down at 110°C

CPU Fan True Value Table (Discrete)

CPU Temperature (Celsius)	Fan Speed (RPM)	SPL Spec (dBA)
38	2700	28
50	3200	31
60	3550	34
67	3900	34
78	4200	37

Throttling 50%: On= 95°C; OFF=90°C

OS shut down at 100°C; H/W shut down at 80°C

North Bridge Chipset

Item	Specification
Chipset	RS880M
Package	• Single chip solution in 55nm, 1.1V low power CMOS technology. • 528-FCBGA package, 21mmx21mm.

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Item	Specification
Features	• CPU HyperTransport. Interface • Supports 16-bit up/down HyperTransport (HT) 3.0 interface up to 4.4 GT/s. • Supports 200, 400, 600, 800, and 1000 MHz HT1 frequencies. • Supports 1.6, 1.8, 2.0, and 2.2 GHz HT3 frequencies. • Supports AMD AM3 and S1g3-socket CPUs, including the AMD Phenom II and Caspian-series processors. • Supports LDTSTOP interface and CPU link stutter mode. ATI HyperMemory. • Supports ATI HyperMemory.*. * Note: Includes dedicated and shared memory. The amount of HyperMemory available is determined by various factors. For details, please consult your AMD CSS representative. PCI ExpressR Interface • Supports PCIe Gen2 (version 2.0). • Optimized peer-to-peer and general purpose link performance. • Highly flexible PCI Express implementation to suit a variety of platform needs. • A dual-port, x16 graphics interface. • Supports programmable lane reversal for the graphics link to ease motherboard layout when the end device does not support lane reversal (not applicable to the RS880MC). • Supports six general purpose lanes, for up to six devices on specific ports. A-Link Express II Interface • One x4 A-Link Express II interface for connection to an AMD Southbridge. The A-Link Express II is a proprietary interface developed by AMD basing on the PCI Express Gen2 version 2.0 technology, with additional Northbridge-Southbridge messaging functionalities. • Supports programmable lane reversal to ease motherboard layout. 2D Acceleration Features • Highly-optimized 128-bit engine, capable of processing multiple pixels per clock. • Hardware acceleration of Bitblt, line drawing, polygon and rectangle fills, bit masking, monochrome expansion, panning and scrolling, scissoring, and full ROP support (including ROP3). • Optimized handling of fonts and text using AMD proprietary techniques. • Game acceleration including support for Microsoft's DirectDrawR: Double Buffering, Virtual Sprites, Transparent Blit, and Masked Blit. • Acceleration in 1/8/15/16/32-bpp modes: • Pseudocolor mode for 8bpp • ARGB1555 and RGB565 modes for 16bpp • ARGB8888 mode for 32bpp • Significant increase in the High-End Graphics WinBenchR score due to capability for C18 color expansion. • Setup of 2D polygons and lines.

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Item (NB Cont.)	Specification
Features	• Support for GDI extensions: • In Windows XP and Windows Vista: Alpha BLT, Transparent BLT, and Gradient Fill. • In Windows 7: Alpha BLT, Transparent BLT, Color Fill BLT, Stretch BLT, and Clear Type BLT. • Hardware cursor (up to 64x64x32bpp), with alpha channel for direct support of Windows XP, Windows Vista andWindows 7 alpha cursor. • 3D Acceleration Features • Fully DirectX 10.1 compliant, including full speed 32-bit floating point per component operations • Shader Model 4.1 geometry and pixel support in a unified shader architecture: • Full speed 32-bit floating point processing per component. • High dynamic range rendering with floating point blending, texture filtering and anti-aliasing support. • High performance dynamic range computations • Full anti-aliasing on render surfaces up to and including 128-bit floating point formats. • Support for OpenGLR 2.0 • Anti-Aliasing Filtering: • 2x/4x/8x modes. • Sparse multi-sample algorithm with gamma correction, programmable sample patterns, and centroid sampling. • Temporal anti-aliasing. • Adaptive anti-aliasing mode. • Lossless color compression (up to 8:1) at all resolutions, up to and including widescreen HDTV. • Anisotropic Filtering: • 2x/4x/8x/16x modes • Up to 128-tap texture filtering. • Adaptive algorithm with performance (bi-linear) and quality (tri-linear) options. • Improved quality mode due to improved subpixel precision, higher precision LOD computations, and rotationally invariant LOD computations. • Advanced Texture Compression (3Dc+.): • High quality 4:1 compression for normal maps and luminance maps. • Works with any single-channel or two-channel data format. • HW support to overcome "Small batch" issues in CPU limited applications. • 3D resources virtualized to a 32-bit addressing space, for support of large numbers of render targets and textures. • New vertex cache and vertex fetch design, to increase vertex throughput from previous generations. • Full support of 64-bit and 128-bit textures and surfaces, which can be 4x to 8x faster than previous generation of HW. • Up to 8K x 8K textures, including 128 bpp texture are supported.

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Item (NB Cont.)	Specification
Features	• New multi-level texture cache to give optimal performance, greater than 8x the previous designs. • High efficiency ring bus memory controller: • Programmable arbitration logic maximizes memory efficiency, software upgradeable. • Fully associative texture, color, and Z cache design. • New hierarchical Z and stencil buffers with early Z Test. • New lossless Z-buffer compression for both Z and stencil. • Fast Z-Buffer Clear. • Z cache optimized for real-time shadow rendering. • Z and color compression resources virtualized to a 32-bit addressing space, for support of multiple render targets and textures simultaneously. Motion Video Acceleration Features • Video scaling and fully programmable YCrCb to RGB color space conversion for full-speed video playback and fully adjustable color controls. • Adaptive de-interlacing eliminates video artifacts caused by displaying interlaced video on non-interlaced displays, and by analyzing image and using optimal de-interlacing function on a per-pixel basis. • H.264 implementation is based on the ISO/IEC 14496-10 spec. • VC-1 implementation is based on the SMPTE 421M spec. • For the RS880MC: MPEG-2 decode acceleration for SD contents: • Hardware motion compensation. • Hardware Inverse Discrete Cosine Transform. • Multiple Display Features General • Resolution, refresh rates, and display data can be completely independent for the two display paths. • ¡E Each display controller supports true 30 bits per pixel throughout the display pipe. • ¡E Each display path supports VGA and accelerated modes, video overlay, hardware cursor, hardware icon, and palette gamma correction. • Supports both interlaced and non-interlaced displays. • Full ratiometric expansion ability is supported for source desktop modes up to 1920 pixels/line. • Maximum DAC frequency of 400 MHz. • Supports 8, 16, 32, and 64-bpp depths for the main graphics layer: • For 32-bpp depth, supports xRGB 8:8:8:8, xRGB 2:10:10:10, sCrYCb 8:8:8:8, and xCrYCb 2:10:10:10 data formats. • For 64-bpp depth, supports xRGB 16:16:16:16 data format. • Independent gamma, color conversion and correction controls for main graphics layer. • Support for DDC1 and DDC2B+ for plug and play monitors. • 8-bit alpha blending of graphics and video overlay.

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Item (NB Cont.)	Specification
Features	• Hardware cursor up to 64x64 pixels in 2 bpp, full color AND/XOR mix, and full color 8-bit alpha blend. • Hardware icon up to 128x128 pixels in 2 bpp, with two colors, transparent, and inverse transparent. AND/XOR mixing. Supports 2x2 icon magnification. • Virtual desktop support. • Support for flat panel displays via VGA. VGA Output • Maximum resolutions supported by the VGA output for different refresh rates are: • 2048x1536 @85Hz (pixel clock at 388.5MHz) for 4:3 format • 2560x1440 @75Hz (pixel clock at 397.25MHz) for 16:9 format • 2456x1536 @60Hz (pixel clock at 320MHz) for 16:10 format • 1.3.10 Integrated LVDS Interface • Integrated dual-link 24-bit LVDS interface. • 805 Mbps/channel with 115 MHz pixel clock rate per link (230 MHz maximum pixel clock). • FPDI-2 compliant; compatible with receivers from National Semiconductor, Texas Instruments, and THine. • OpenLDI compliant excluding DC balancing. • Programmable internal spread spectrum controller for the signals. System Clocks • Support for an external clock chip to generate side-port memory, PCIe, and A-Link Express II clocks. Alternatively, internal generation for these clocks, with clock input from an SB800-series Southbridge, can be used (subject to characterization with actual RS880M and SB800-series devices). Power Management Features • Single chip solution in 55nm, 1.1V CMOS technology. • Supports ACPI 2.0 for S0, S3, S4, and S5 states. • Full IAPC (Instantly Available PC) power management support. • Static and dynamic power management support (APM as well as ACPI) with full VESA DPM and Energy Star compliance. • The Chip Power Management Support logic supports four device power states defined for the OnNow Architecture - On, Standby, Suspend, and Off. Each power state can be achieved by software control bits. • Hardware controlled intelligent clock gating enables clocks only to active functional blocks, and is completely transparent to software. • Support for Cool'n'Quiet. via FID/VID change. • Support for AMD PowerNow!.. • Clocks to every major functional block are controlled by a unique dynamic clock switching technique that is completely transparent to the software. By turning off the clock to the block that is idle or not used at that point, the power consumption can be significantly reduced during normal operation. • Supports AMD Vari-Bright., ATI PowerXpress., and ATI PowerPlay. (enhanced with the ATI PowerShift. feature). • Supports dynamic lane reduction for the PCIe graphics interface when coupled with an AMD-based graphics device, PC Design Guide Compliance

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Item (NB Cont.)	Specification
Features	• The RS880M complies with all relevant Windows Logo Program (WLP) requirements from Microsoft for WHQL certification. Test Capability Features The RS880M has a variety of test modes and capabilities that provide a very high fault coverage and low DPM (Defect Per Million) ratio: • Full scan implementation on the digital core logic through ATPG (Automatic Test Pattern Generation Vectors). • Dedicated test logic for the on-chip custom memory macros to provide complete coverage on these modules. • A JTAG test mode to allow board level testing of neighboring devices. • An EXOR tree test mode on all the digital I/O's to allow for proper soldering verification at the board level. • A VOH/VOL test mode on all digital I/O¡¦s to allow for proper verification of output high and output low values at the board level. • Access to the analog modules to allow full evaluation and characterization. • IDDQ mode support to allow chip evaluation through current leakage measurements. • These test modes can be accessed through the settings on the instruction register of the JTAG circuitry. • Additional Features • Integrated spread spectrum PLLs on the memory and LVDS interface.

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Southbridge Chipset

Item	Specification
Chipset	SB820M
Package	
Features	*Processor Interface Supports AMD mobile processors code-named “Champlain,” and “Geneva.” *A-Link Express II interface to Northbridges 1-, 2-, or 4-lane A-Link Express II *interface Automatic detection of lane configuration on boot-up Dynamic lane width up/down configuration on detecting bandwidth requirement Supports transfer rate of up to 2.5 GT/s per lane. *PCI ExpressR Controller Two-lane PCI ExpressR (PCIeR) 1.x interface, supporting up to two general purpose devices. Supported configurations include: 1x2 2x1 *PCI Host Bus Controller Supports PCI bus at 33MHz Supports PCI Rev. 2.3 specification Supports up to 4 bus master devices Supports 40-bit addressing Interrupt steering supported for plugn-play devices Supports concurrent PCI operations BIOS/hardware support to hide PCI device Supports spread spectrum *USB Controllers 4 OHCI and 3 EHCI host controllers to support 14 USB 2.0 ports and 2 dedicated USB 1.1 ports Supports ACPI S1 ~ S5 Supports legacy keyboard/mouse USB debug port *Supports port disable with individual control *SMBus Controller Supports SMBALERT # signal *Interrupt Controller Supports IOAPIC/X-IO APIC mode for 24 channels of interrupts Supports 8259 legacy mode for 15 interrupts Supports programmable level/edge triggering on each channels Supports serial interrupt on quiet and continuous modes *DMA Controller Two cascaded 8237 DMA controllers Supports LPC DMA Supports type F DMA *LPC host bus Controller Supports LPC-based super I/O and flash devices Supports two master/DMA devices Supports TPM version 1.1/1.2 devices for enhanced security Supports SPI devices and SPI ROM sharing Supports a maximum SPI ROM size of 16MB

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Item (SB Cont.)	Specification
Features	*SATA Controller Supports six Third generation SATA ports (compatible with devices running at 6 Gbits/s, 3 Gbit/s, and1.5 Gbit/s) Complies with SATA 2.6 specification Supports three modes of operation: *IDE emulation mode AHCI mode (compliant with AHCI specification revision 1.2) RAID mode *Any of the six ports can be configured to a lower transfer rate of 3 or 1.5 Gbit/s for saving power. Any of the six SATA ports can be configured to support Second generation e-SATA port (compatible with devices running at 3 Gbit/s and 1.5 Gbit/s; Third generation e-SATA not supported as per the SATA 3.0 Specification). Supports DIPM, HIPM, hot plug, and NCQ in AHCI mode. *AMD RAID Support Supports integrated RAID 0 and RAID 1 functionality across all 6 ports *AHCI Support Supports AHCI hardware assist (version 1.2) to support advanced features such as NCQ (Native Command Queuing), hotplug, and *Device or Host Initiated Power Management (DIPM /HIPM) *High Definition Audio Four independent output streams (DMA) Four independent input streams (DMA) Multiple channels of audio output per stream *Supports up to 4 codecs Up to 192kHz sample rate and 32-bit audio 64-bit addressing capability for DMA bus master and MSI Unified Audio Architecture (UAA) compatible HD Audio registers can be located anywhere in the 64-bit address space Supports 3.3V/1.5V dual-voltage interface for power saving *Gigabit Ethernet Media Access *Controller (GbE MAC) Supports RGMII/MII interface to Ethernet PHY (for selected BroadcomRtransceivers only) 10/100/1000Base-T full duplex or half duplex MAC Supports Receive Side Scaling (RSS) IPv4 and IPv6 Large Send Offload (LSO) IPv4 and IPv6 Checksum Offload Wake-on-LAN (WoL) support *Timers 8254-compatible timer Microsoft High Precision Event Timer (HPET) ACPI power management timer Watchdog timer *Real Time Clock (RTC) 256-byte battery-backed CMOS RAM Hardware supported century rollover Hardware supported day-light saving feature RTC battery monitoring feature

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Item (SB Cont.)	Specification
Features	*Power Management ACPI specification 3.0 compliant power management schemes Supports CPU C1e, C2, C3, C3 pop-up, C4, and C5 states Supports system S0, S1, S3, S4, and S5 states Wakeup events for S1, S3, S4, and S5 generated by: Any GEVENT pin Any GPM pin USB Power Button Internal RTC wakeup SMI event Consumer IR CPU SMM support, generating SMI message upon power management events CLKRUN# support for PCI power management Provides clock generator and CPU vSTPCLK# control Supports hardware monitoring and fan control ALPM (HIPM) on SATA DIPM on SATA *Consumer IR Media center infrared with wake from all states Two transmitters IR receiver and wideband learning receiver *Hardware Monitoring Temperature monitoring Monitor temperature range from 0 to 95‹C, with an accuracy of +/-5‹C Voltage monitoring Fan control Supports up to 5 fans Access to ACPI Features through SMBus ASFBus GPIO *Integrated Clock Function Provides 25MHz, 14.318MHz, and 48MHz clocks Provides CPU_HT and NB_HT clocks Provides graphics, A-Link Express II, and nine general PCIe Rclocks

System Memory

Item	Specification
Memory size	0MB (No on-board Memory)
DIMM socket number	2 sockets
Supports memory size per socket	1GB
Supports maximum memory size	2GB
Supports DIMM type	DDR3
Supports DIMM Speed	800 MHz
Sideport Memory	DDR3 128MB

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Hard Disk Drive Interface

Item	Specification			
Vendor & Model Name	Seagate AB160314009 AB250315000 AB320325009	HGST AB545016015 AB545025015 AB545032018	Toshiba 65GX AB001664001 AB002565002 AB003265002	WD AB1600BE048 AB2500BE036 AB3200BE041
Capacity (GB)	TBD			
Bytes per sector	512			
Data heads	1-4			
Drive Format				
Disks	1-2			
Spindle speed (RPM)	5400			
Performance Specifications				
Buffer size	8 MB			
Interface	SATA			
DC Power Requirements				
Voltage tolerance	5V ±5%	5V ±5%	5V ±5%	5V ±5%

BIOS

Item	Specification
BIOS vendor	Phoenix
BIOS version	Release 4.0
BIOS ROM type	Flash
Features	• Flash ROM 4MB • Support ISIPP • Support Acer UI • Support multi-boot • Suspend to RAM (S3)/Disk (S4) • Various hot-keys for system control • Support SMBIOS 2.3, PCI2.2. • Refer to Acer BIOS specification. • DMI utility for BIOS serial number configurable/asset tag • Support PXE • Support Y2K solution • Support WinFlash • Wake on LAN from S3 • Wake on LAN form S4 in AC mode • System information

LCD 10.1”

Item	Specification
Vendor/model name	AUO/CMO/LG/Samsung
Screen Diagonal (mm)	10.1 inches
Display resolution (pixels)	1024 x 600 pixels
Pixel Pitch	0.2175 (H)X0.2088 (V)

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Item	Specification
Display Mode	Normally White
Typical White Luminance (cd/m^2) (also called Brightness)	200
Contrast Ratio	400 typical
Response Time (Optical Rise Time/Fall Time) msec	16 typ / 25 Max
Luminance Uniformity	1.25 max. (5 points)
Electrical Interface	LVDS
Support Color	262K colors (RGB 6-bit)
Temperature Range (°C) Operating Storage (shipping)	 0 to +50 -20 to +60

Bluetooth 2.0

Item	Specification
Bluetooth Controller	AR3011/BCM 2046/BC2070
Features	• Fully Qualified Bluetooth v2.1 with Class 2 specification RF output power. • Enhanced Data Rate (EDR) compliant. • Full Piconet and Scatternet operation. • Integrated PIFA Antenna with better RF performance. • USB 2.0 compliant interface. • F/W upgradable via Flash downloads. • Very low power consumption. • Support Coexistence with Intel WCS (Wireless Coexistence System) & AFH (Adaptive Frequency Hopping).

Bluetooth 3.0

Item	Specification
Bluetooth Controller	
Features	• The Broadcom BCM2070 Bluetooth module is compatible with Bluetooth • Core Specification,Version 2.1, available in the 2.4GHz (ISM) band, and support Enhanced Data Rate (EDR) and Adaptive Frequency Hopping • (AFH) schemes. The chipset is a single-chip Bluetooth transceiver and baseband processor, with highest level of integration and eliminating most of critical external components, and thus minimizing the module size and its cost. • Broadcom BCM2070 (50 pin BGA, single-chip Bluetooth transceiver and base-band processor) • Serial Flash Memory • Bluetooth 2.1 compliant • Point-to-multipoint operation • External USB interface for data • Onboard antenna and SMA RF connector • Coexistence support

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Audio Codec and Amplifier

Item	Specification
Audio Controller	CX20672-11Z
Package	40-QFN
Features	• Compliant with Intel High Definition Audio Specification Rev. 1.0 • Internal Digital Microphone • Integrated 2 WRMS (per channel) class-D stereo speaker amplifier with • Spread Spectrum and 10-kV ESD withstand capability

LAN Interface

Item	Specification
LAN Chipset	ATHEROS AR8152-AL1A-RL
Features	• Integrated PHY for 10/100 Mbps • IEEE 802.3 Auto-Negotiation support • IEEE 802.3 PHY compliance and compatibility • Supports automatic MDI/MDIX functions • Cable Diagnostic Test (CDT) for open, short cable, cable length detection, and incorrect or mismatched impedance • Cable length to 180 meters • Supports +/-100 ppm clock offset; Link stable with 3m + 180m + 3m test • Link Period <1.5s

Keyboard

Item	Specification
Type	ACER AC7T_A10B AC7T Internal 17
Total number of keypads	103/104/107
Windows logo key	Yes
Internal & external keyboard work simultaneously	Yes
Features	• Supports application keys for Windows 7 version

Media Card Reader

Item	Specification
Chipset	AU6437-GBL -GR
Package	LQFP
Features	• Fully compatible with USB2.0 High Speed and backward compatible with USB1.1 specifications • Supports multiple flash card interfaces, including SD/ MMC/xD/MS. • Supports single LUN • Supports both Windows and Mac OS

Camera

Item	Specifications
Vendor and model	SUYIN/ Chicony/ Liteon
Type	CMOS image sensor with WXGA (resolution 1280X800)
Interface	USB Port

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Item	Specifications
Focusing range	26.6cm ~ infinity (Chicony) 70cm (Suyin)
Dimensions (L x W x H mm)	65 x 8 x 3.69 +0.11/-0.29 (H)
Sensor type	1.0Mega CMOS Sensor
Pixel resolution	1280X800
Pixel size	3.0um X3.0um
Image size	3.89mm(H) X 2.43mm(V)Part number

Wireless LAN

	Specification
Vendor and model	Foxconn 4312/4314/HB95 BG/HB95 BGN or Lite on HB95 BGN/ Realtek
Features	• Compatible with IEEE 802.11g standard . Integrated RF front end with high-output PA, LNA, Rx/Tx switch • The IEEE802.11g data rate provides for 54 auto fallback 48, 36, 24, 18, 12, 9, 6 and IEEE802.11b data rate provides for 11g auto fallback to 11, 5.5, 2 and 1Mbps. • Support wireless data encryption with 64-bit, 128-bit WEP standard for security. • Allows auto fallback data rate for optimized reliability, throughput and transmission range. • Supports Ad-hoc mode (peer-peer) and Infrastructure mode (client-server). • Auto scan to find AP nearby and show signal strength for each channel. • Support AES, TKIP, WPA, IEEE 802.1x and CCX. • Support Quality of Service 802.11e. • Dynamic Frequency Selection/Transmit Power Control (DFS/TPC) for European operation. • Support Site Survey.

Battery

Item	Specification
	6 Cell
Vendor & model name	
Battery Type	
Pack capacity	
Number of battery cell	
Package configuration	

3G

Item	Specifications
Vendor and model	CDMA2000 ® 1X
Type	CDMA2000 1xEV-DO (Release0 and Rev.A)
Interface	WCDMA (UMTS)

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Item	Specifications
Features	• High-Speed Downlink Packet Access (HSDPA) • High-Speed Uplink Packet Access (HSUPA) • Receive Diversity in CDMA2000 1X,CDMA2000 1xEV-DO and WCDMA (UMTS) • GSM Release 4 • GPRS/EGPRS Multi-slot Class12, Release 4 • Standalone GPS

I/O Interface

Item	Specifications
Features	• Color-coded connectors • 1 VGA port, 15 pins • 1 Microphone jack • 1 headphone/line-out jack • 3 External USB 2.0 connectors • 1 DC in jack • 1 RJ-45 jack for LAN • 5-in-1 Card Reader (MS, MS Pro, SD, MMC, xD) • 1 SIM Card connector • 1 HDMI port

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System Utilities

BIOS Setup Utility

The BIOS Setup Utility is a hardware configuration program built into your computer's BIOS (Basic Input/ Output System).

Your computer is already properly configured and optimized, and you do not need to run this utility. However, if you encounter configuration problems, you may need to run Setup. Please also refer to Chapter 4 Troubleshooting when problem arises.

To activate the BIOS Utility, press **F2** during POST (when **Press <F2> to enter Setup** message is prompted on the bottom of screen).

Press **F2** to enter setup. The default parameter of F12 Boot Menu is set to "disabled". If you want to change boot device without entering BIOS Setup Utility, please set the parameter to "enabled".

Press **<F12>** during POST to enter multi-boot menu. In this menu, user can change boot device without entering BIOS SETUP Utility.

Navigating the BIOS Utility

There are five menu options: Information, Main, Security, Boot, and Exit.

Follow these instructions:

- To choose a menu, use the left and right arrow keys.
- To choose an item, use the up and down arrow keys.
- To change the value of a parameter, press **F5** or **F6**.
- Press **Esc** while you are in any of the menu options to go to the Exit menu.
- In any menu, you can load default settings by pressing **F9**. You can also press **F10** to save any changes made and exit the BIOS Setup Utility.

NOTE: You can change the value of a parameter if it is enclosed in square brackets. Navigation keys for a particular menu are shown on the bottom of the screen. Help for parameters are found in the Item Specific Help part of the screen. Read this carefully when making changes to parameter values. **Please note that system information is subject to different models**.

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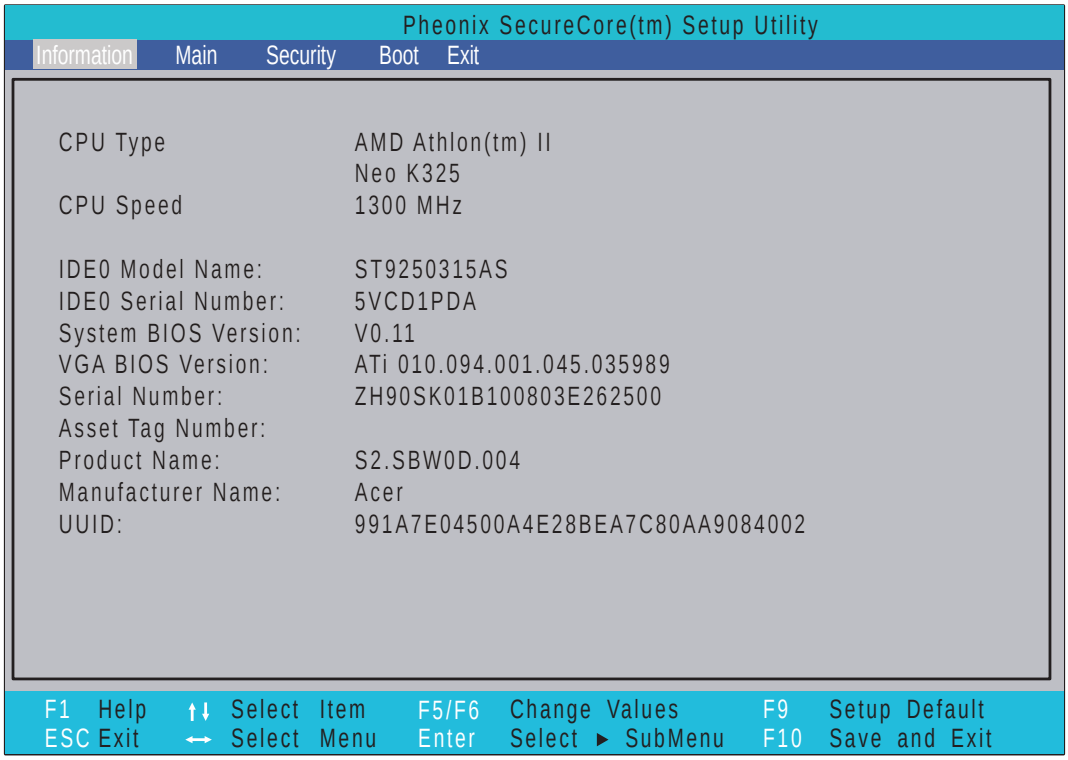
Information

The Information screen displays a summary of your computer hardware information.


Pheonix SecureCore(tm) Setup Utility
Information Main Security Boot Exit
CPU Type AMD Athlon(tm) II Neo K325
CPU Speed 1300 MHz
IDE0 Model Name: ST9250315AS
IDE0 Serial Number: 5VCD1PDA
System BIOS Version: V0.11
VGA BIOS Version: ATi 010.094.001.045.035989
Serial Number: ZH90SK01B100803E262500
Asset Tag Number:
Product Name: S2.SBW0D.004
Manufacturer Name: Acer
UUID: 991A7E04500A4E28BEA7C80AA9084002
F1 Help ↑↓ Select Item F5/F6 Change Values F9 Setup Default
ESC Exit ↔ Select Menu Enter Select ▶ SubMenu F10 Save and Exit

NOTE: The system information is subject to different models.

Parameter	Description
CPU Type	This field shows the CPU type and speed of the system.
CPU Speed	This field shows the speed of the CPU.
IDE0 Model Name	This field shows the model name of HDD installed on primary IDE master.
IDE0 Serial Number	This field displays the serial number of HDD installed on primary IDE master.
System BIOS Version	Displays system BIOS version.
VGA BIOS Version	This field displays the VGA firmware version of the system.
Serial Number	This field displays the serial number of this unit.
Asset Tag Number	This field displays the asset tag number of the system.
Product Name	This field shows product name of the system.
Manufacturer Name	This field displays the manufacturer of this system.
UUID Number	Universally Unique Identifier (UUID) is an identifier standard used in software construction, standardized by the Open Software Foundation (OSF) as part of the Distributed Computing Environment (DCE).

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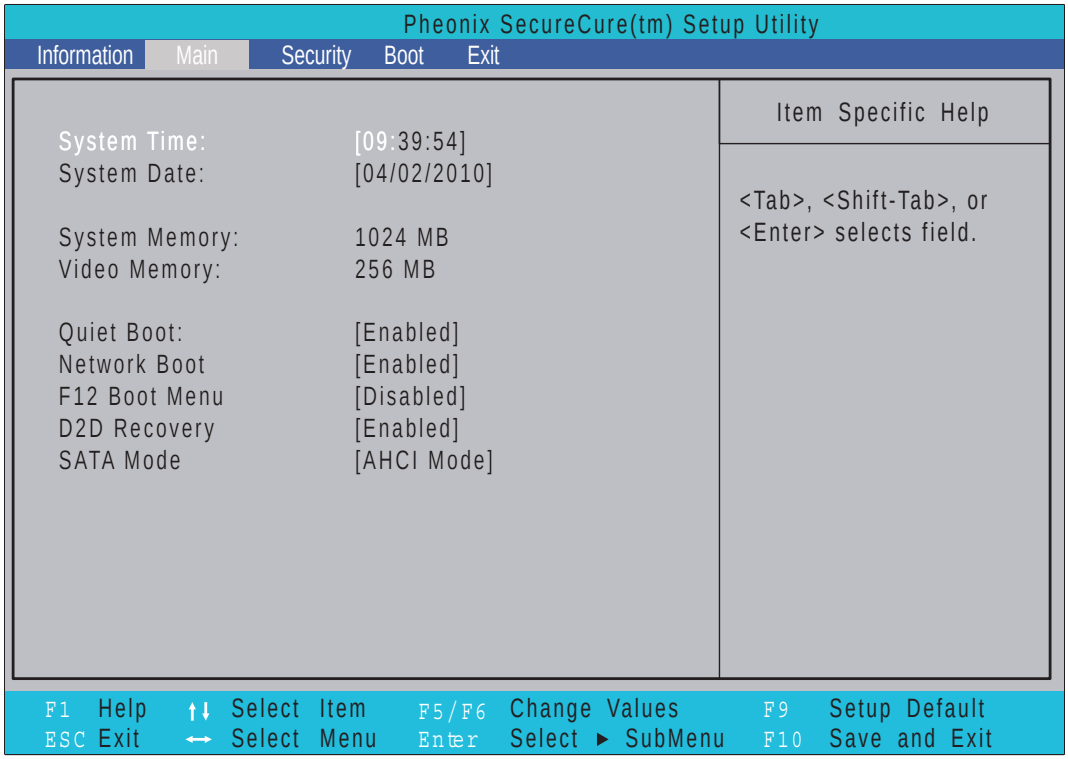
Main

The Main screen allows the user to set the system time and date as well as enable and disable boot option and recovery.



NOTE: The screen above is for your reference only. Actual values may differ.

The table below describes the parameters in this screen. Settings in **boldface** are the default and suggested parameter settings.

Parameter	Description	Format/Option
System Time	Sets the system time. The hours are displayed with 24-hour format.	Format: HH:MM:SS (hour:minute:second)
System Date	Sets the system date.	Format MM/DD/YYYY (month/day/year)
System Memory	This field reports the memory size of the system. Memory size is fixed to 4096MB.	N/A
Video Memory	Shows the video memory size. VGA Memory size=32 MB	N/A
Quiet Boot	This will hide POST messages while booting.	Option: **Enabled** or Disabled
Network Boot	Enables, disables the system boot from LAN (remote server).	Option: **Enabled** or Disabled
F12 Boot Menu	Enables, disables Boot Menu during POST.	Option: **Disabled** or Enabled
D2D Recovery	Enables, disables D2D Recovery function. The function allows the user to create a hidden partition on hard disc drive to store operation system and restore the system to factory defaults.	Option: **Enabled** or Disabled
SATA Mode	Control the mode in which the SATA controller should operate.	Option: **AHCI mode** or IDE mode

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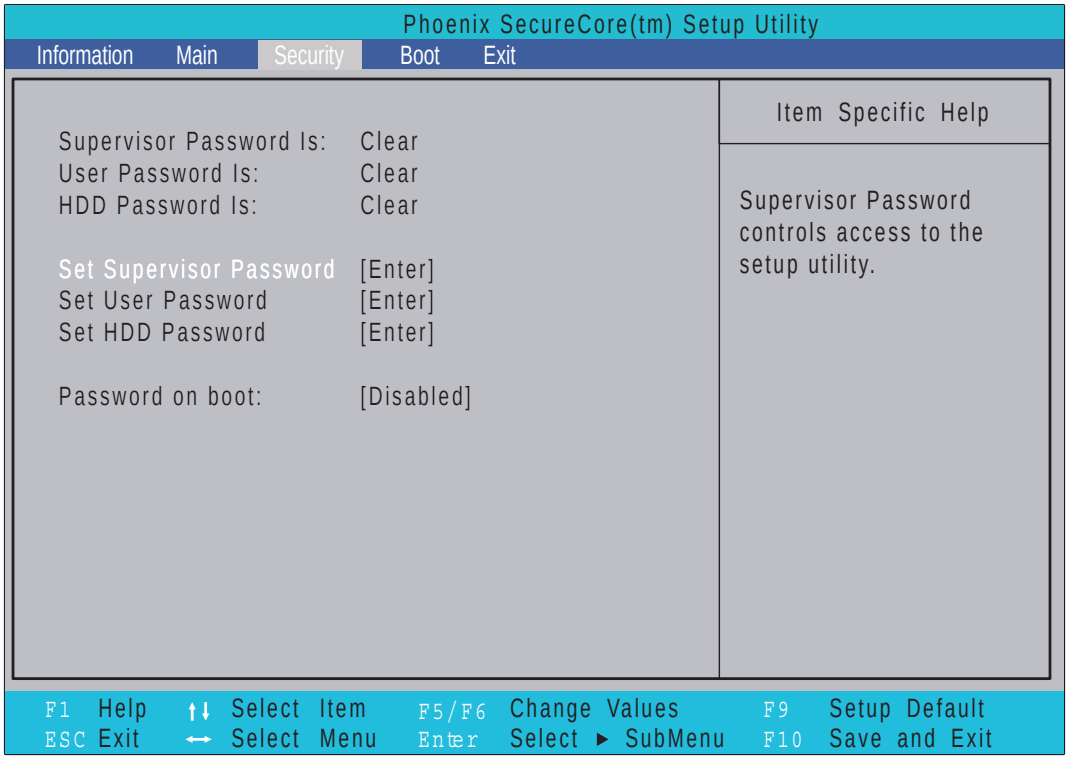
Security

The Security screen contains parameters that help safeguard and protect your computer from unauthorized use.



The table below describes the parameters in this screen. Settings in **boldface** are the default and suggested parameter settings.

Parameter	Description	Option
Supervisor Password Is	Shows the setting of the Supervisor password	**Clear** or Set
User Password Is	Shows the setting of the user password.	**Clear** or Set
HDD Password Is	Shows the setting of the HDD password	**Clear** or Set
Set Supervisor Password	Press Enter to set the supervisor password. When set, this password protects the BIOS Setup Utility from unauthorized access. The user can not either enter the Setup menu nor change the value of parameters.	
Set User Password	Press Enter to set the user password. When user password is set, this password protects the BIOS Setup Utility from unauthorized access. The user can enter Setup menu only and does not have right to change the value of parameters.	
Set HDD Password	Press Enter to set the HDD password. When set this protects the HDD from unauthorized access.	
Password on boot	Defines whether a password is required or not for the system to boot completely.	**Disabled** or Enabled

NOTE: When you are prompted to enter a password, you have three tries before the system halts. Don't forget the password. If you forget the password, you may have to reset the computer.

Setting a Password

Follow these steps as you set the user or the supervisor password:

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1. Use the ↑ and ↓ keys to highlight the Set Supervisor Password parameter and press the **Enter** key. The Set Supervisor Password box appears:

2. Type a password in the “Enter New Password” field. The password length can not exceeds 8 alphanumeric characters (A-Z, a-z, 0-9, not case sensitive). Retype the password in the “Confirm New Password” field.

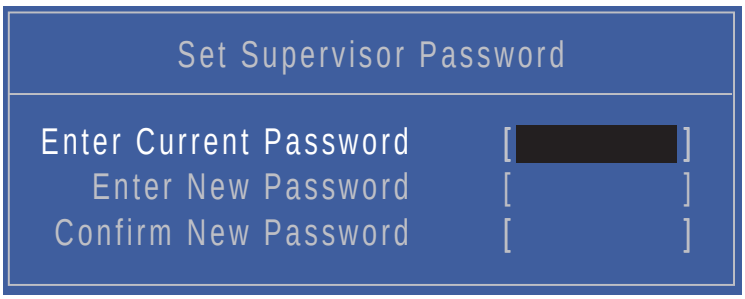
IMPORTANT: Be very careful when typing your password because the characters do not appear on the screen.

3. Press **Enter**. After setting the password, the computer sets the User Password parameter to “Set”.
4. If desired, you can opt to enable the Password on boot parameter.
5. When you are done, press F10 to save the changes and exit the BIOS Setup Utility.

Removing a Password

Follow these steps:

1. Use the ↑ and ↓ keys to highlight the Set Supervisor Password parameter and press the **Enter** key. The Set Password box appears:



2. Type the current password in the Enter Current Password field and press **Enter**.
3. Press **Enter** twice **without** typing anything in the Enter New Password and Confirm New Password fields. The computer then sets the Supervisor Password parameter to “Clear”.
4. When you have changed the settings, press u to save the changes and exit the BIOS Setup Utility.

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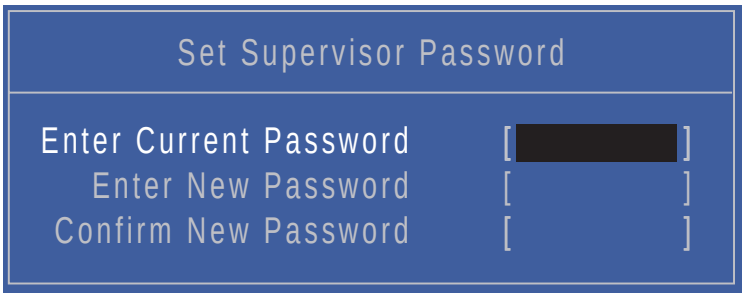
Changing a Password

1. Use the ↑ and ↓ keys to highlight the Set Supervisor Password parameter and press the **Enter** key. The Set Password box appears.



2. Type the current password in the Enter Current Password field and press **Enter**.
3. Type a password in the Enter New Password field. Retype the password in the Confirm New Password field.
4. Press **Enter**. After setting the password, the computer sets the User Password parameter to “Set”.
5. If desired, you can enable the Password on boot parameter.
6. When you are done, press **F10** to save the changes and exit the BIOS Setup Utility.

If the verification is OK, the screen will display as following.

The password setting is complete after the user presses **Enter**.

If the current password entered does not match the actual current password, the screen will show you the Setup Warning.

If the new password and confirm new password strings do not match, the screen displays the following message.

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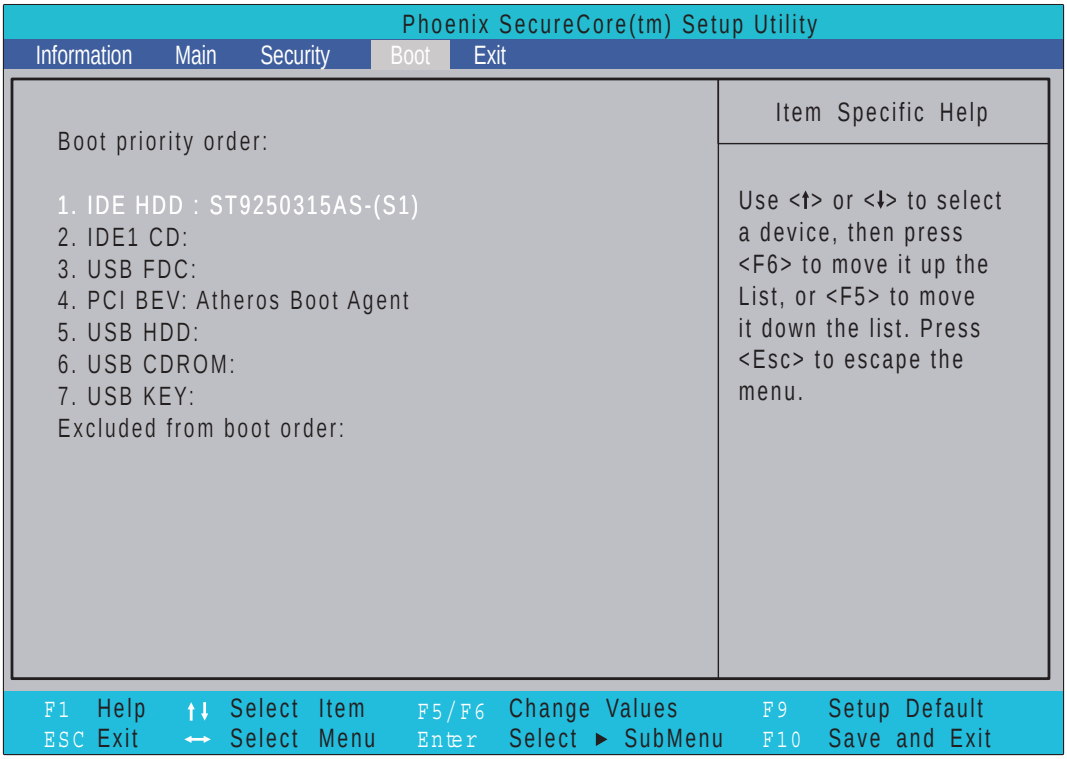
Boot

This menu allows the user to decide the order of boot devices to load the operating system. Bootable devices includes the USB diskette drives, the onboard hard disk drive and the DVD drive in the module bay.


Phoenix SecureCore(tm) Setup Utility
Information
Main
Security
Boot
Exit
Boot priority order:
1. IDE HDD : ST9250315AS-(S1)
2. IDE1 CD:
3. USB FDC:
4. PCI BEV: Atheros Boot Agent
5. USB HDD:
6. USB CDROM:
7. USB KEY:
Excluded from boot order:
Item Specific Help
Use <↑> or <↓> to select a device, then press <F6> to move it up the List, or <F5> to move it down the list. Press <Esc> to escape the menu.
F1 Help ↑↓ Select Item F5/F6 Change Values F9 Setup Default
ESC Exit ↔ Select Menu Enter Select ▶ SubMenu F10 Save and Exit

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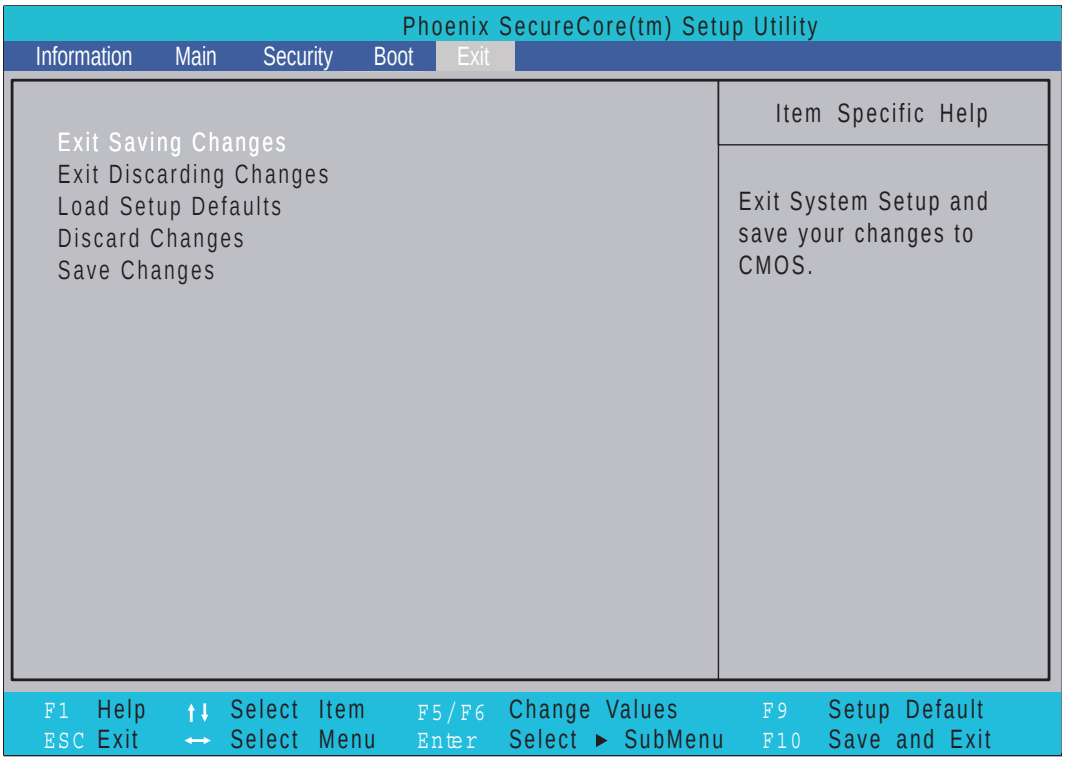
Exit

The Exit screen allows you to save or discard any changes you made and quit the BIOS Utility.



The table below describes the parameters in this screen.

Parameter	Description
Exit Saving Changes	Exit System Setup and save your changes to CMOS.
Exit Discarding Changes	Exit utility without saving setup data to CMOS.
Load Setup Default	Load default values for all Setup item.
Discard Changes	Load previous values from CMOS for all Setup items.
Save Changes	Save Setup Data to CMOS.

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BIOS Flash Utility

The BIOS flash memory update is required for the following conditions:

- New versions of system programs
- New features or options
- Restore a BIOS when it becomes corrupted.

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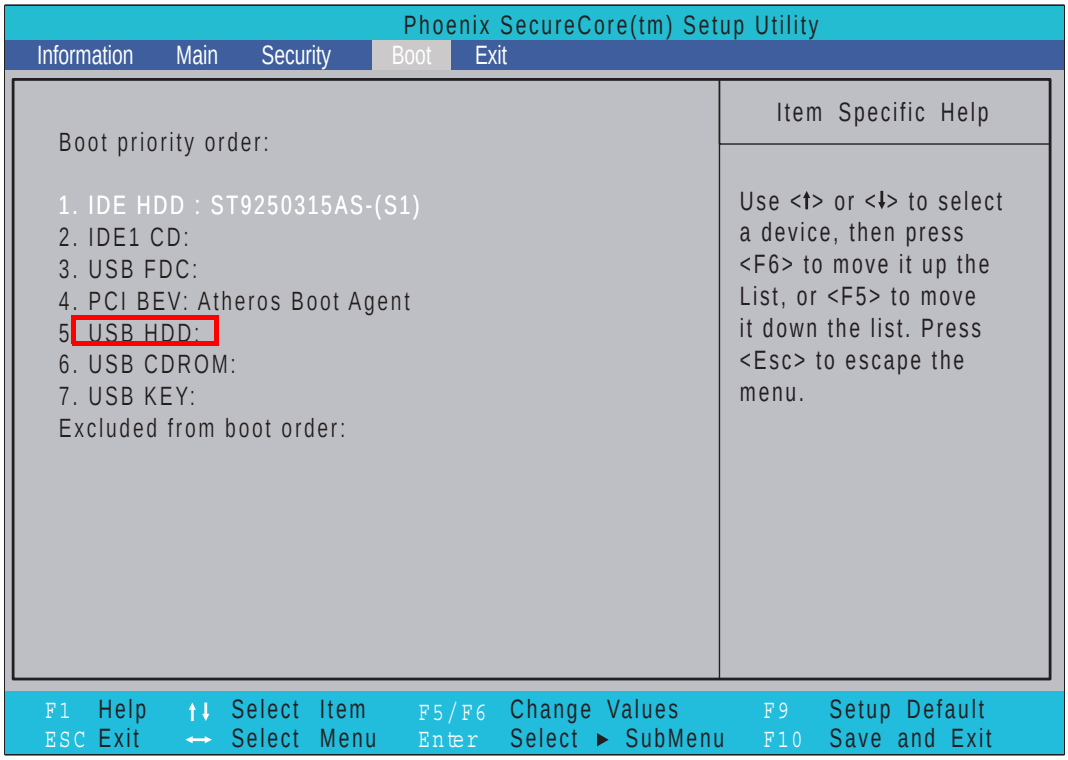
DOS Flash Utility

Perform the following steps to use the DOS Flash Utility:

1. Press F2 during boot to enter the Setup Menu.
2. Select **Boot Menu** to modify the boot priority order, for example, if using USB HDD to Update BIOS, move USB HDD to position 1.


Phoenix SecureCore(tm) Setup Utility
Information
Main
Security
Boot
Exit
Boot priority order:
1. IDE HDD : ST9250315AS-(S1)
2. IDE1 CD:
3. USB FDC:
4. PCI BEV: Atheros Boot Agent
5. USB HDD:
6. USB CDROM:
7. USB KEY:
Excluded from boot order:
Item Specific Help
Use <↑> or <↓> to select a device, then press <F6> to move it up the List, or <F5> to move it down the list. Press <Esc> to escape the menu.
F1 Help ↑↓ Select Item F5/F6 Change Values F9 Setup Default
ESC Exit ↔ Select Menu Enter Select ▸ SubMenu F10 Save and Exit

3. Execute the **FLASH.BAT** batch file to update BIOS. Or enter C:\ **Flash it bios ver.fd/dc**

The flash process begins as shown.

Insyde Flash Utility for InsydeH20
Version 1.2n
Initializing
File loading 100 %
Current BIOS Model name : JAT10
New BIOS Model name : JAT10
Current BIOS version: V0.21
New BIOS version: V0.23
Updating Block at FFFF8000

4. In flash BIOS, the message **Please do not remove AC Power Source** displays.

NOTE: If the AC power is not connected, the following message displays.

Plug in the AC power to continue.

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5. Flash is complete when the message Flash programming complete displays.

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WinFlash Utility

Perform the following steps to use the WinFlash Utility:

1. Double click the WinFlash executable.
2. Click **OK** to begin the update. A progress screen displays.

3. When the process is complete, close all programs and applications and reboot the system.

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Remove HDD/BIOS Password Utilities

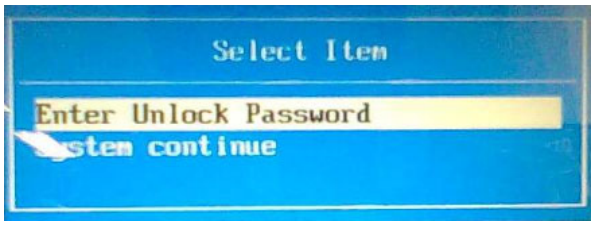
This section provide you with removing HDD/BIOS method:

Remove HDD Password:

When the user keys in the wrong password three times, the system reports the following error code to user.

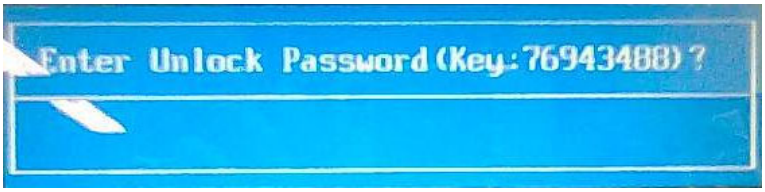
To unlock the HDD password, perform the following steps:

1. Press **Enter** to display the Select Item screen.



2. Select **Enter Unlock Password** and press **Enter**.

An Unlock Password displays.



3. Make a note of the key, **76943488** in the example.
4. Boot up the system to a removable bootable drive containing DOS and the UnlockHD.EXE program and open a DOS prompt. For instructions on changing boot priority see “Boot” on page 35.
5. From the DOS prompt, enter the **UnlockHD.EXE** command and input the key to create an unlock code. Make a note of the result, for example **46548274**.
6. Reboot to the hard disk and wait for the error code to reappear.
7. Press **Enter** to display the Select Item screen.
8. Select **Enter Unlock Password** and press **Enter**.
9. Enter the unlock code generated by UnlockHD.EXE.
10. Save and exit the BIOS to complete the process.

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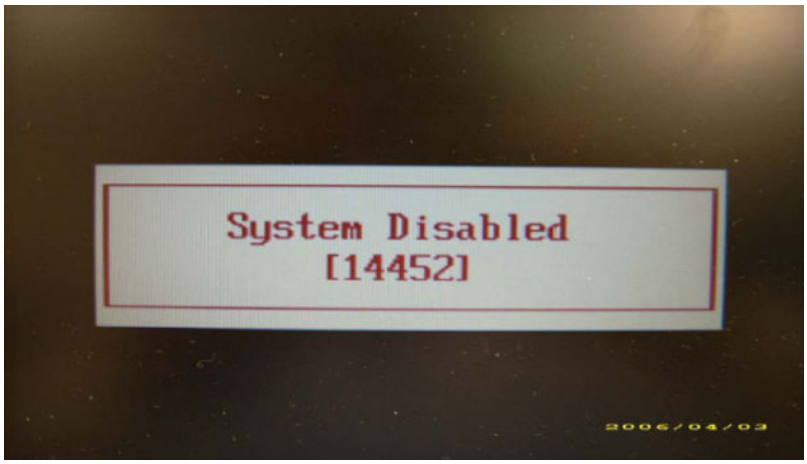
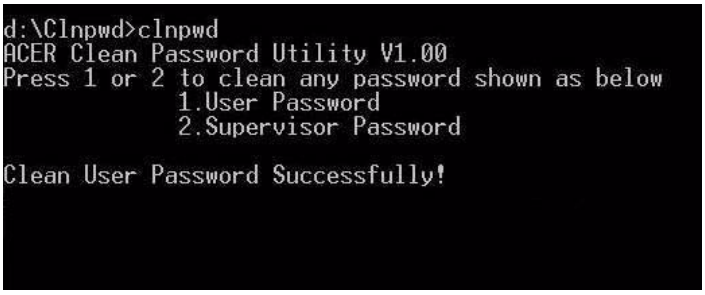
Removing BIOS Passwords:

If you key in the wrong Supervisor Password three times, System Disabled displays on the screen. See the image below.



To reset the BIOS password, run clnpwd.exe as follows:

1. From a DOS prompt, Execute **clnpwd.exe**


d:\Clnpwd>clnpwd
ACER Clean Password Utility V1.00
Press 1 or 2 to clean any password shown as below
1.User Password
2.Supervisor Password
Clean User Password Successfully!

2. Press 1 or 2 to clean the desired password shown on the screen.

The onscreen message determines whether the function is successful or not.

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Miscellaneous Utilities

Using Boot Sequence Selector

Boot Sequence Selector allows the boot order to be changes without accessing the BIOS. To use Boot Sequence Selector, perform the following steps:

1. Enter into DOS.
2. Execute BS.exe to display the usage screen.

d:\BOOTSEQ>bs
*** Boot Sequence Selecter Version 0.03 ***
Create by Rockwell Chuang 10/01/2005.
Usage:
BS [1 | 2 | 3 | 4]
BS 1 : [Floppy] => [HardDisk] => [CD-ROM] => [LAN]
BS 2 : [HardDisk] => [CD-ROM] => [LAN] => [Floppy]
BS 3 : [CD-ROM] => [HardDisk] => [LAN] => [Floppy]
BS 4 : [LAN] => [Floppy] => [HardDisk] => [CD-ROM]
d:\BOOTSEQ>

3. Select the desired boot sequence by entering the corresponding sequence, for example, enter BS2 to change the boot sequence to HDD|CD ROM|LAN|Floppy.

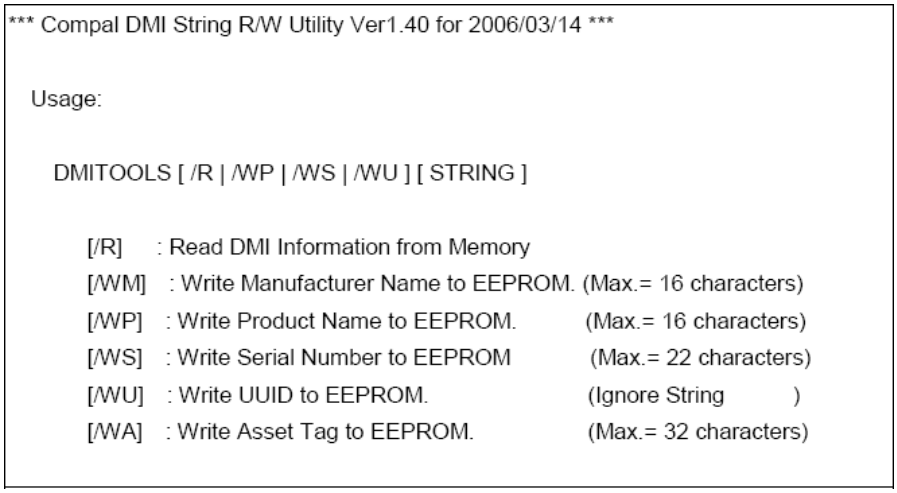
Using DMITools

The DMI (Desktop Management Interface) Tool copies BIOS information to eeprom to be used in the DMI pool for hardware management.

When the BIOS displays **Verifying DMI pool data** it is checking the table correlates with the hardware before sending to the operating system (Windows, etc.).

To update the DMI Pool, perform the following steps:

1. Enter into DOS.
2. Execute **dmitools.exe**. The following messages show dmitools usage:


*** Compal DMI String R/W Utility Ver1.40 for 2006/03/14 ***
Usage:
DMITOOLS [/R | /WP | /WS | /WU] [STRING]
[/R] : Read DMI Information from Memory
[/WM] : Write Manufacturer Name to EEPROM. (Max.= 16 characters)
[/WP] : Write Product Name to EEPROM. (Max.= 16 characters)
[/WS] : Write Serial Number to EEPROM (Max.= 22 characters)
[/WU] : Write UUID to EEPROM. (Ignore String)
[/WA] : Write Asset Tag to EEPROM. (Max.= 32 characters)

IMPORTANT: The following write examples (2 to 5) require a system reboot to take effect

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Example 1: Read DMI Information from Memory

Input:

dmitools /r

Output:

Manufacturer (Type1, Offset04h): Acer

Product Name (Type1, Offset05h): Aspire one xxxxx

Serial Number (Type1, Offset07h): 01234567890123456789

UUID String (Type1, Offset08h): xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx

Asset Tag (Type3, Offset04h): Acer Asstag

Example 2: Write Product Name to EEPROM

Input:

dmitools /wp Acer

Example 3: Write Serial Number to EEPROM

Input:

dmitools /ws 01234567890123456789

Example 4: Write UUID to EEPROM

Input:

dmitools /wu

Example 5: Write Asset Tag to EEPROM

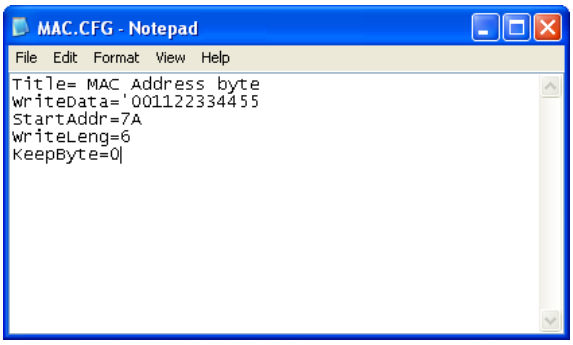
Input:

dmitools /wa Acer Asstag

Using the LAN MAC Utility

Perform the following steps to write MAC information to eeprom:

1. Use a text editor, for example Notepad, to edit the MAC.CFG file as shown:



- WriteData= '001122334455' <------- MAC value
- StartAddr=7A <------- MAC address
- WriteLeng=6 <------- MAC value length
- KeepByte=0 <------- can be any value

2. Boot into DOS.
3. Execute **MAC.BAT** to write MAC information to eeprom.

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Machine Disassembly and Replacement

This chapter contains step-by-step procedures on how to disassemble the notebook computer for maintenance and troubleshooting.

Disassembly Requirements

To disassemble the computer, you need the following tools:

- Wrist grounding strap and conductive mat for preventing electrostatic discharge
- Flat screwdriver
- Philips screwdriver
- Plastic flat screwdriver
- Plastic tweezers

NOTE: The screws for the different components vary in size. During the disassembly process, group the screws with the corresponding components to avoid mismatch when putting back the components.

Related Information

The product previews seen in the disassembly procedures may not represent the final product color or configuration.

IMPORTANT: Cable paths and positioning may not represent the actual model. During the removal and replacement of components, ensure all available cable channels and clips are used and that the cables are replaced in the same position.

Replacement Requirements

NOTE: Cabling and components require adhesive to be applied during the replacement and reassembly process.

NOTE: During manufacture a cyanoacrylate glue is used provided by Holdtite Adhesives LTD. This is not a specified requirement. The reassembler is free to select an alternative appropriate adhesive.

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Pre-disassembly Instructions

Before proceeding with the disassembly procedure, make sure that you do the following:

1. Turn off the power to the system and all peripherals.
2. Unplug the AC adapter and all power and signal cables from the system.

3. Place the system on a flat, stable surface.

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Disassembly Process

The disassembly process is divided into the following sections:

- External components disassembly
- Main unit disassembly
- LCD module disassembly

The flowcharts provided in the succeeding disassembly sections illustrate the entire disassembly sequence. Observe the order of the sequence to avoid damage to any of the hardware components. For example, if you want to remove the Mainboard, you must first remove the Keyboard, and LCD Module then disassemble the inside assembly frame in that order.

Main Screw List

Screw	Quantity	Acer Part Number
M2.5*5		
M2.5*6.5		
M2.5*3Ni		
M2*3Ni		
M2.5*4Ni		
M2.5*4		
M2.5*3		
T2.5*2		
M3*3		
M2*3		

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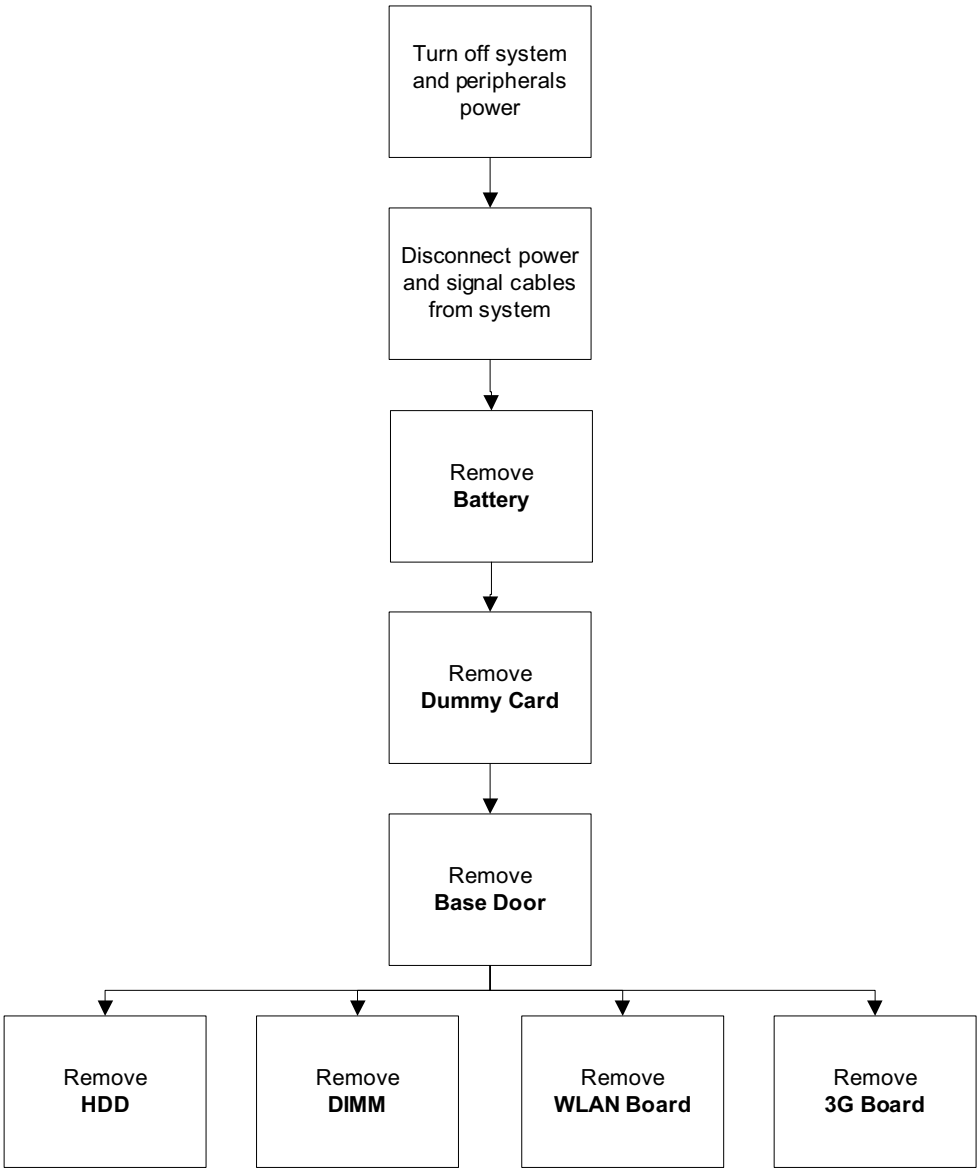
External Module Disassembly Process

NOTE: The product previews seen in the disassembly procedures may not represent the final product color or configuration.

Screw List

Step	Screw	Quantity	Part No.
Remove Base Cover			
Remove WLAN Module			
Remove HDD			
Remove ODD Module			

External Modules Disassembly Flowchart



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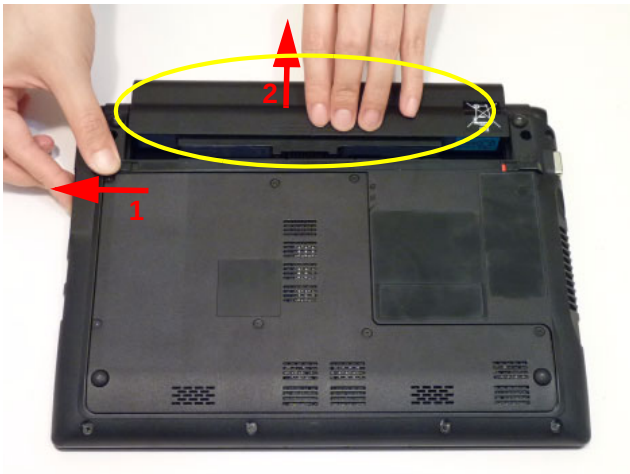
Removing the Battery Pack

1. Turn the computer over.
2. Slide the battery lock/unlock latch to the unlock position.

3. Slide and hold the battery release latch to the release position (1), then slide out the battery pack from the main unit (2).



NOTE: The battery has been highlighted with a yellow oval as shown in the above image. Please detach the battery and follow local regulations for disposal.

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Removing the Dummy Card

1. Press the dummy card in to allow it to spring out.

2. Pull the dummy card out.

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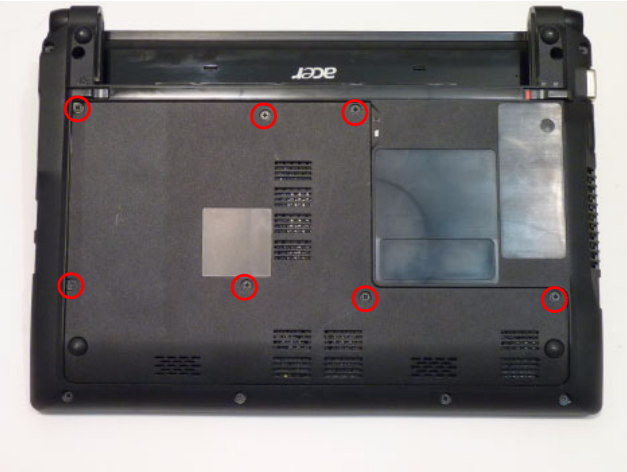
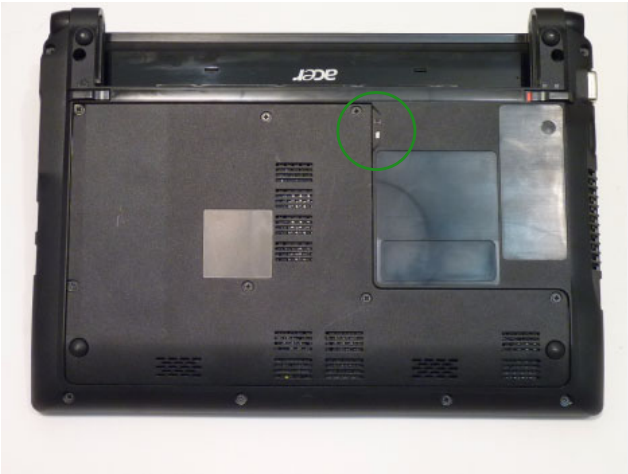
Removing the Base Door

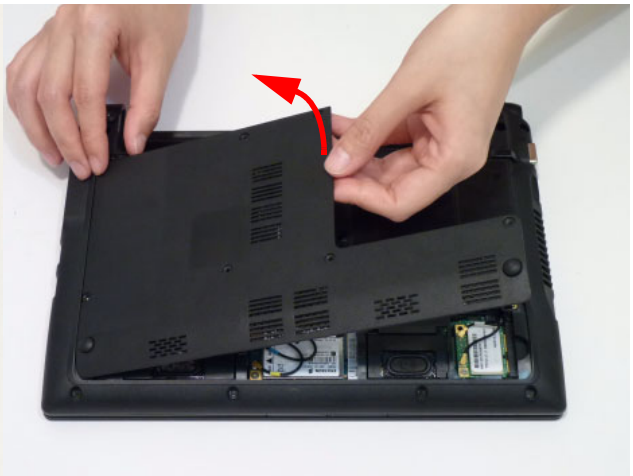
1. See “Removing the Battery Pack” on page 49.
2. Remove the seven (7) screws.



Step	Screw	Quantity	Screw Type
Base Door Disassembly	M2.5*5 (red call out)	7	

3. Lift the base door up at the finger indentation location provided in the bottom cover.





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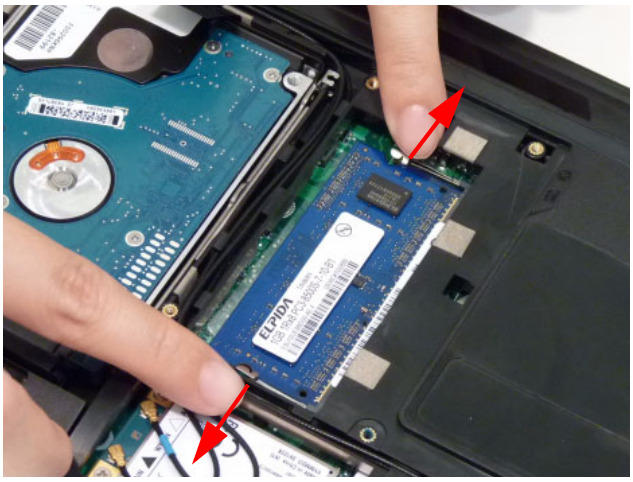
Removing the DIMM Module

1. See “Removing the Battery Pack” on page 49.
2. See “Removing the Base Door” on page 51.
3. Push the memory module clips outwards.



4. Pull the memory module out.

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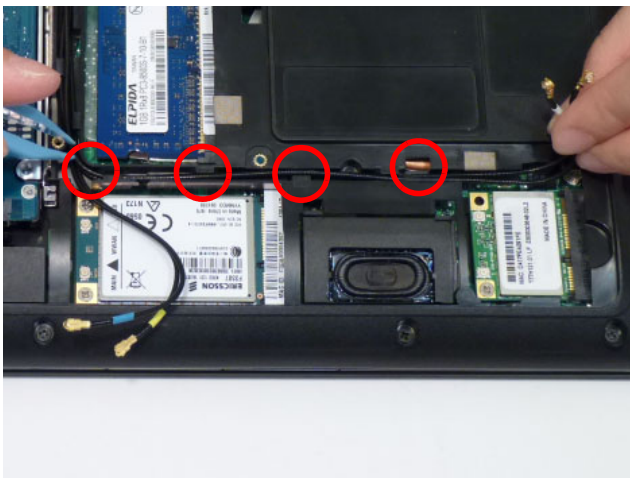
Removing the Hard Disk Drive Module

1. See “Removing the Battery Pack” on page 49.
2. See “Removing the Base Door” on page 51.
3. Detach the WLAN module antennas from the WLAN board.

4. Detach the 3G module antennas from the 3G board.

5. Remove the WLAN antennas from the cable channel.



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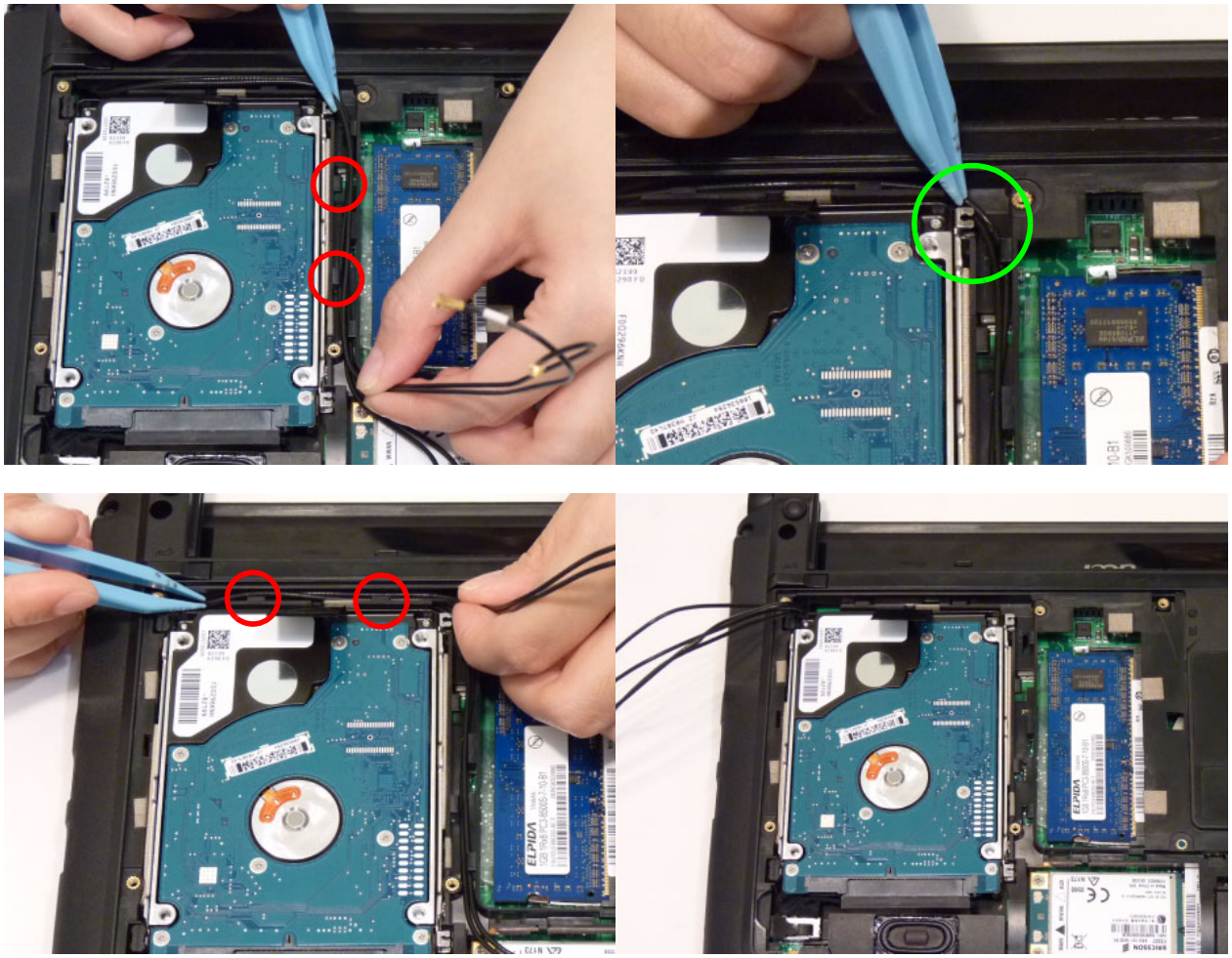
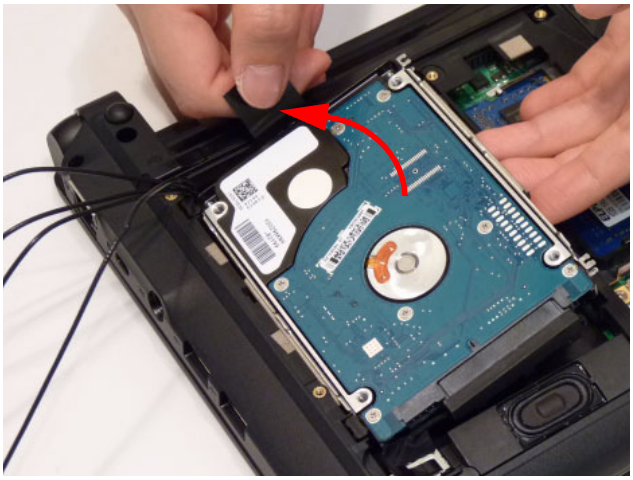
6. Remove both the WLAN and 3G antennas from the cable channel. Take care to lift the cable away from the metal guide (green callout) at the corner of the HDD module.



7. Grasp the tab and pull upwards while using the opposite hand to guide the HDD out of the bay.



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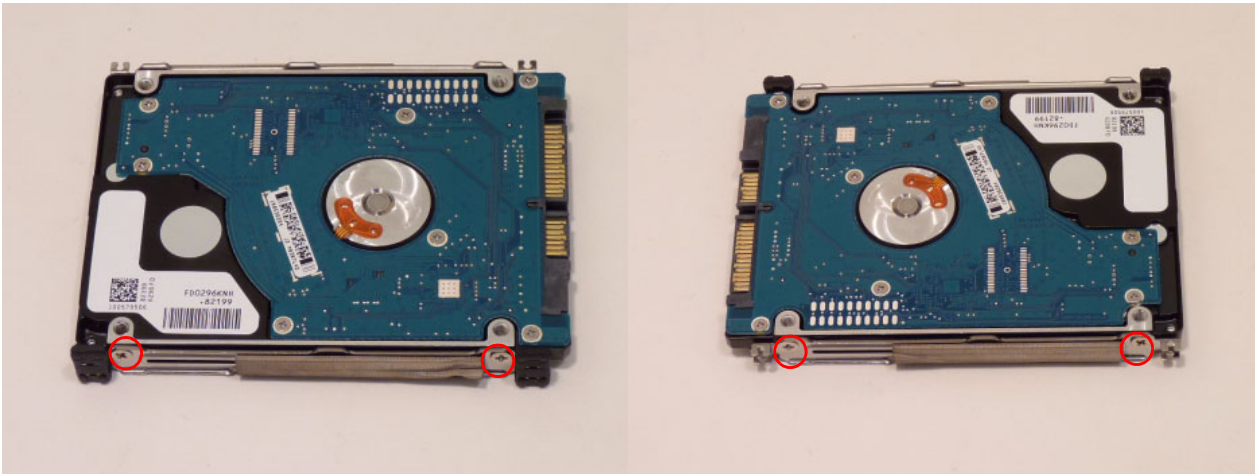
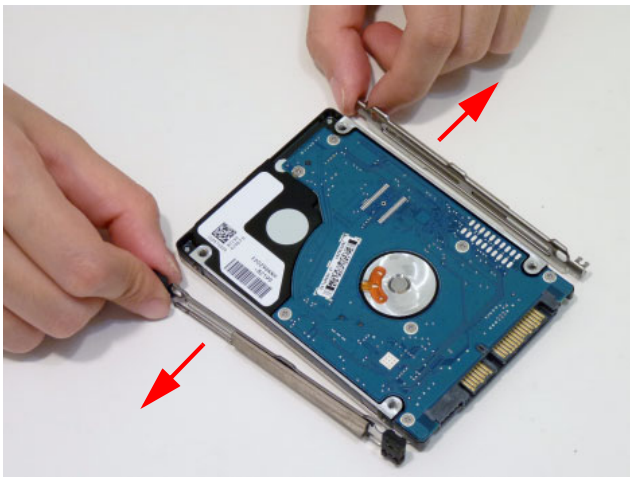
8. Pull the HDD module out of the connector.

9. Remove four (4) screws from the HDD bracket.



Step	Screw	Quantity	Screw Type
HDD Bracket Disassembly	M3*3Ni	4	

10. Remove the brackets from the HDD.



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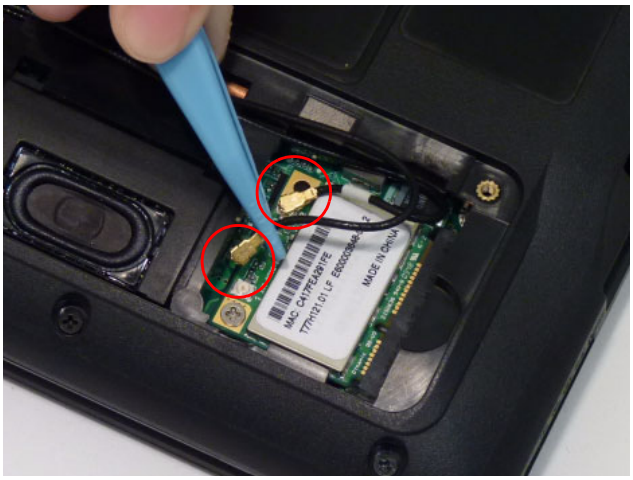
Removing the WLAN Module

1. See “Removing the Battery Pack” on page 49.
2. See “Removing the Base Door” on page 51.
3. Detach the two (2) cables from the Wireless LAN module.

IMPORTANT: Take note of the Main (black) and Auxiliary (white) connectors.



4. Remove the one (1) screw. Ensure the cables are well clear of the module.

Step	Screw	Quantity	Screw Type
WLAN Module Disassembly	M2.5*3Ni	1	

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5. Pull the WLAN module out and away.

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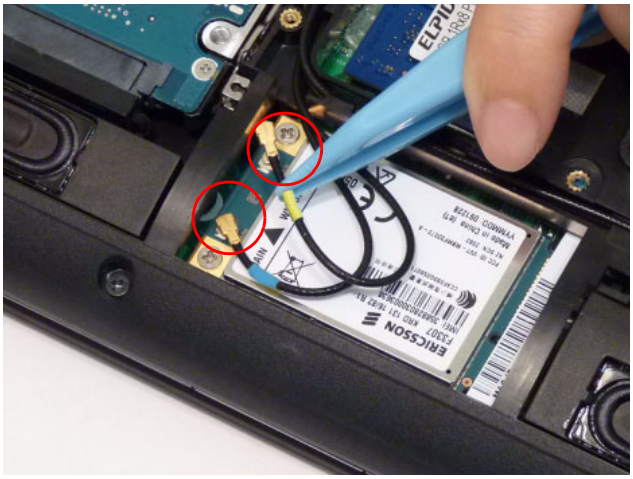
Removing the 3G Module

1. See “Removing the Battery Pack” on page 49.
2. See “Removing the Base Door” on page 51.
3. Detach the two (2) cables from the 3G module.

NOTE: Take note of the Main (blue) and Auxiliary (yellow) connectors.



4. Remove the two (2) screws. Ensure the cables are well clear of the module.

Step	Screw	Quantity	Screw Type
3G Module Disassembly		2	

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5. Pull the 3Gmodule out and away.

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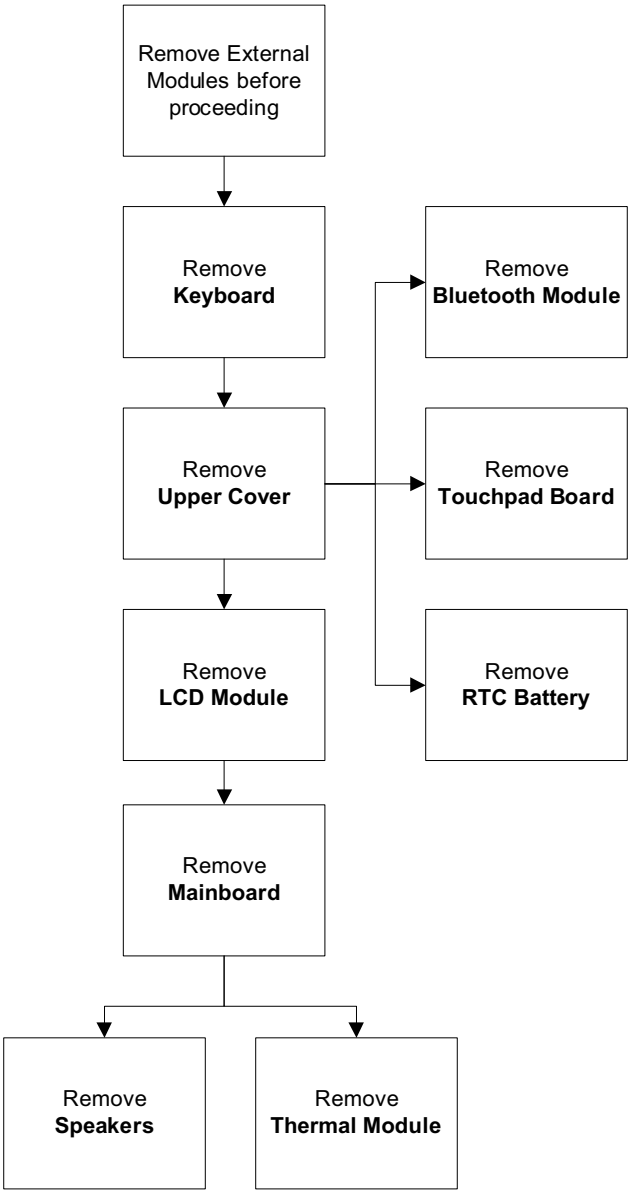
Main Unit Disassembly Process

IMPORTANT: Cable paths and positioning may not represent the actual model. During the removal and replacement of components, ensure all available cable channels and clips are used and that the cables are replaced in the same position.

NOTE: The product previews seen in the disassembly procedures may not represent the final product color or configuration.

Main Unit Disassembly Flowchart



Screw List

Step	Screw	Quantity	Part No.
Remove Upper Cover			

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Step	Screw	Quantity	Part No.
Remove Lower Cover			
Remove Switch Board			
Remove Power Module			
Remove I/O Board			
Remove Bluetooth Module			
Remove Mainboard			
Remove Power Jack Assembly			

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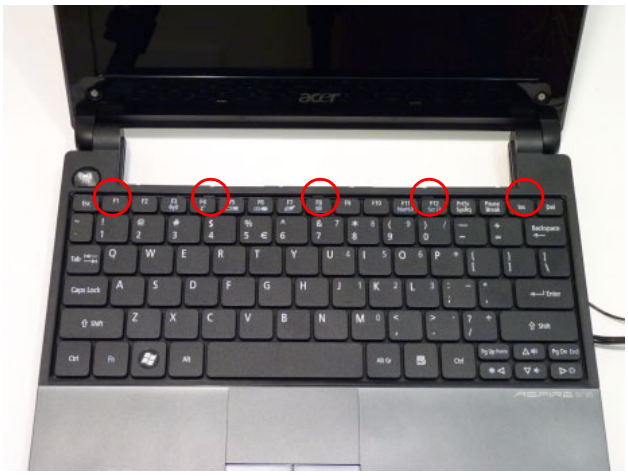
Removing the Keyboard

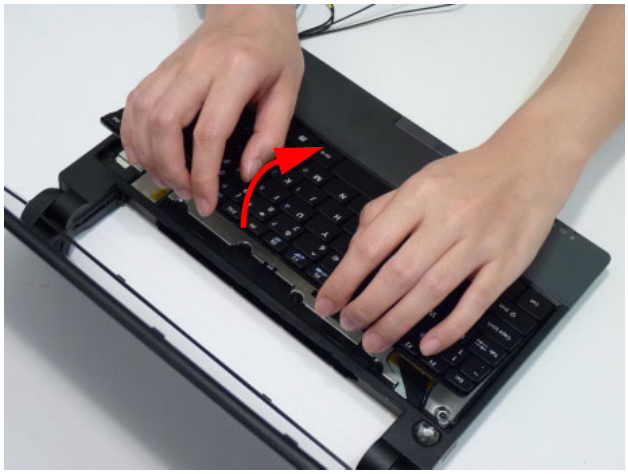
IMPORTANT: The keyboard is easily warped or damaged during the removal process. Take care not to use excessive force when removing to prevent damage.

1. See “External Module Disassembly Process” on page 48.
2. Using the plastic pry, press in the five (5) latches along the top of the keyboard to release the keyboard from the cover.

NOTE: The keyboard will spring up slightly when all retaining clips are unlocked.



3. Flip the keyboard over.



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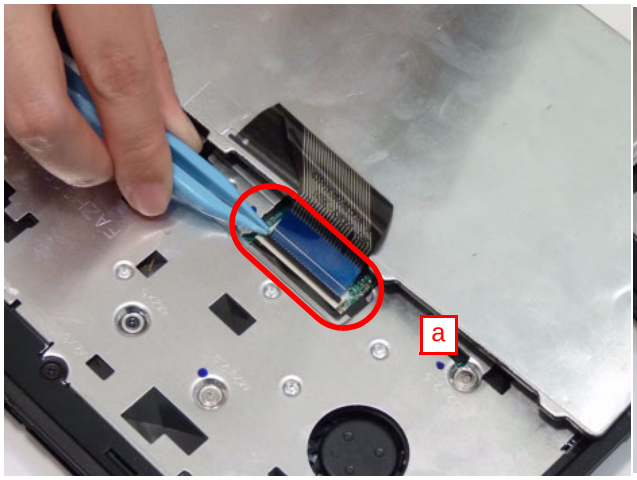
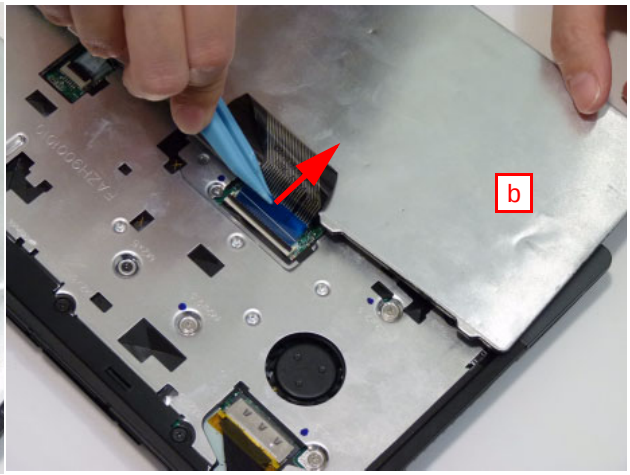
4. Detach the keyboard FPC.

   a. Unlock the FPC

   b. Pull the keyboard away





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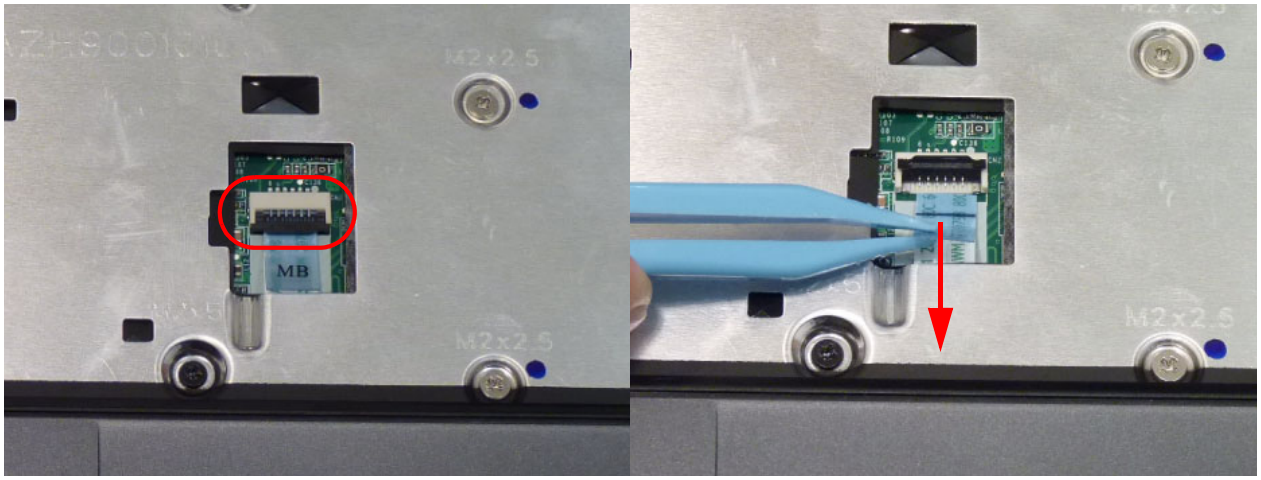
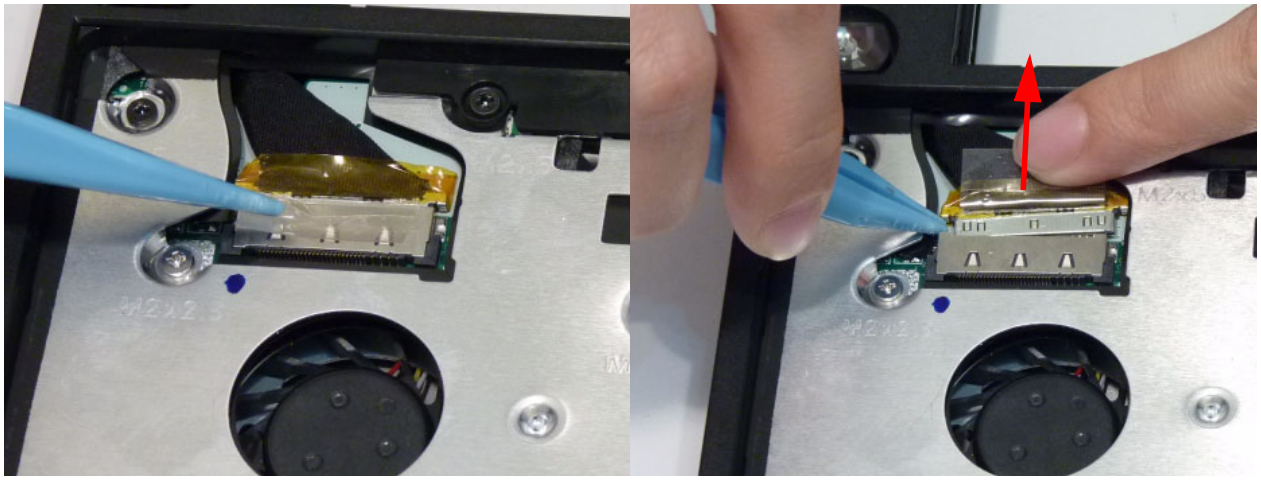
Removing the Upper Cover

1. See “Removing the Keyboard” on page 62.
2. Unlock and disconnect the Toucpad board FFC.



3. Peel back the adhesive tape on the LVDS connector. Disconnect the LVDS cable.



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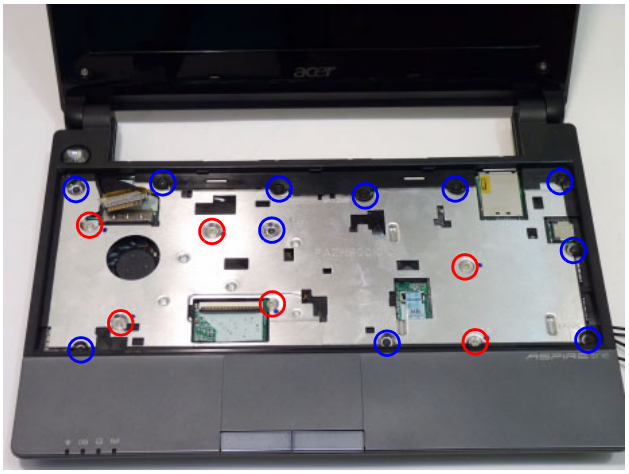
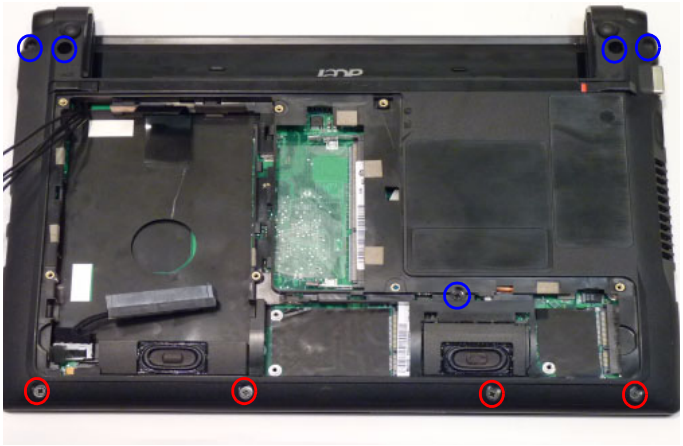
4. Remove the seventeen (17) screws in the upper cover.



Step	Screw	Quantity	Screw Type
Upper Cover Disassembly	M2*2.5 (red call out)	6	
	M2*5 (blue call out)	11	

5. Turn the computer over and remove the nine (9) screws in the lower cover.



Step	Screw	Quantity	Screw Type
Lower Cover Disassembly	(red call out)	4	
	(blue call out)	5	

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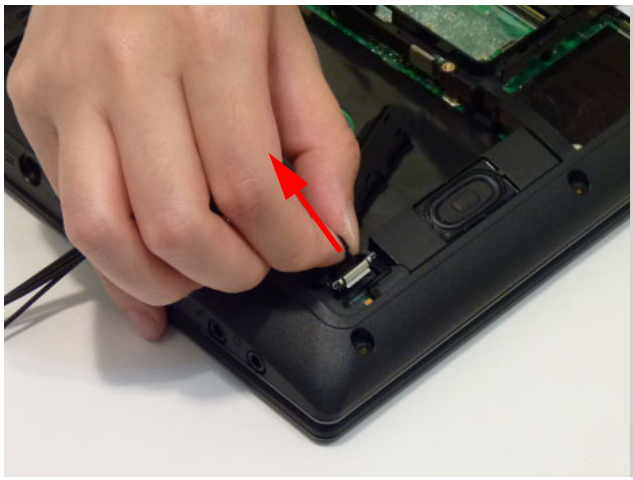
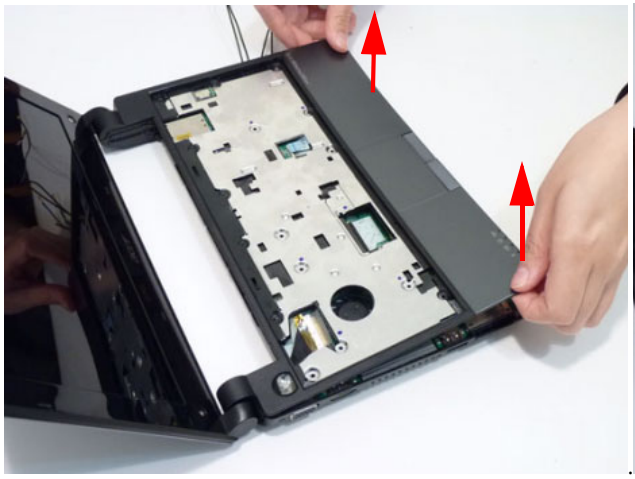
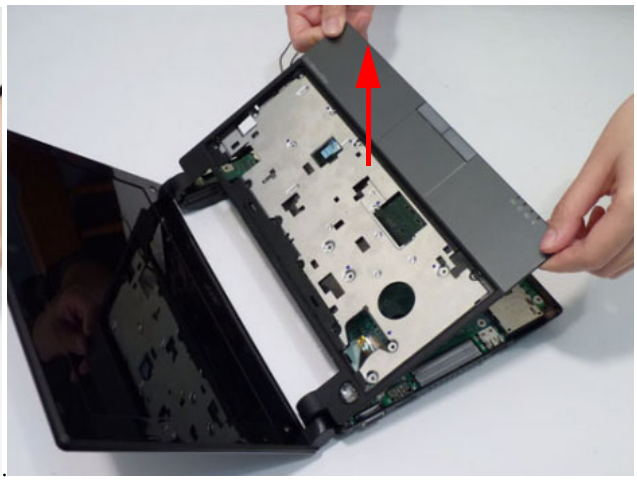
6. Disconnect the HDD connector from the chassis.



7. Pry the upper cover apart from the lower cover starting along the bottom edge. Lift the upper cover away.





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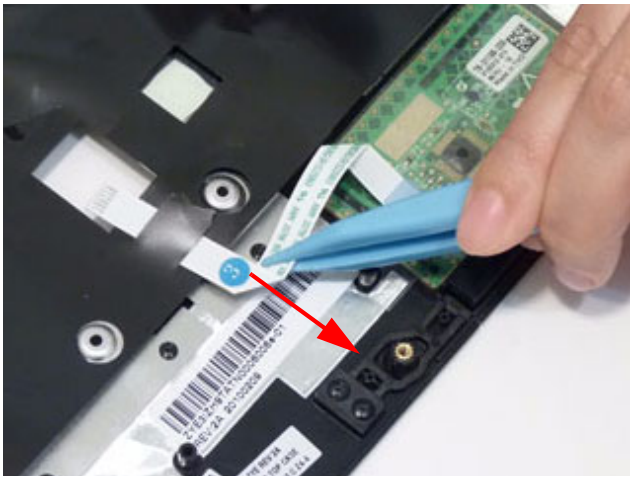
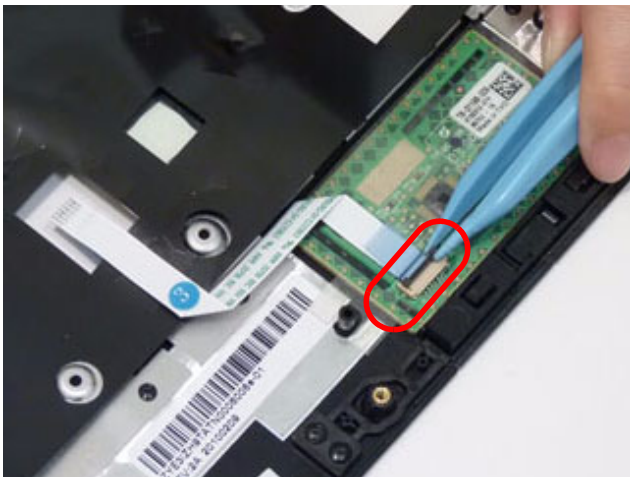
Removing the Touchpad Board

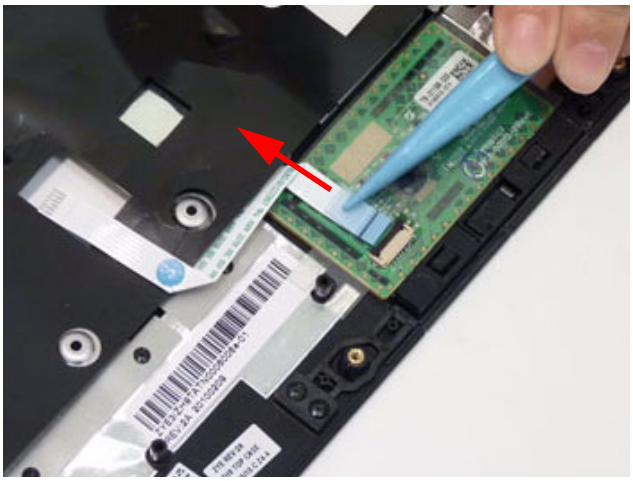
1. See “Removing the Upper Cover” on page 64.
2. Pull the end of the touchboard FFC through the upper cover.



3. Unlock the touchpad FFC connector.



4. Disconnect the touchpad FFC.



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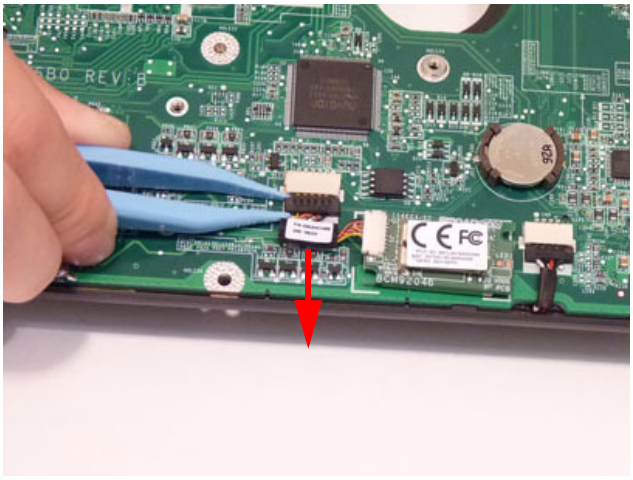
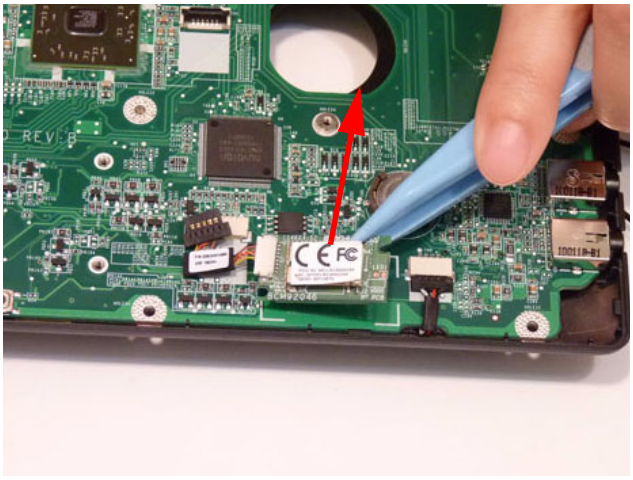
Removing the Bluetooth Module

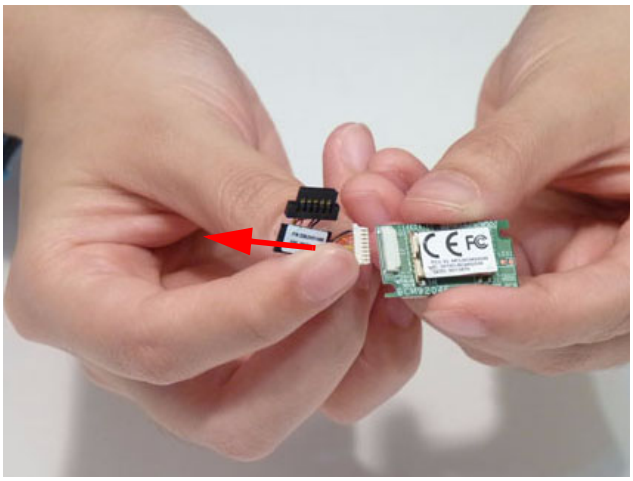
1. See “Removing the Upper Cover” on page 64.
2. Disconnect the Bluetooth module cable from the mainboard.



3. LIft the Bluetooth module away from the computer.



4. Detach the Bluetooth module cable from the module.



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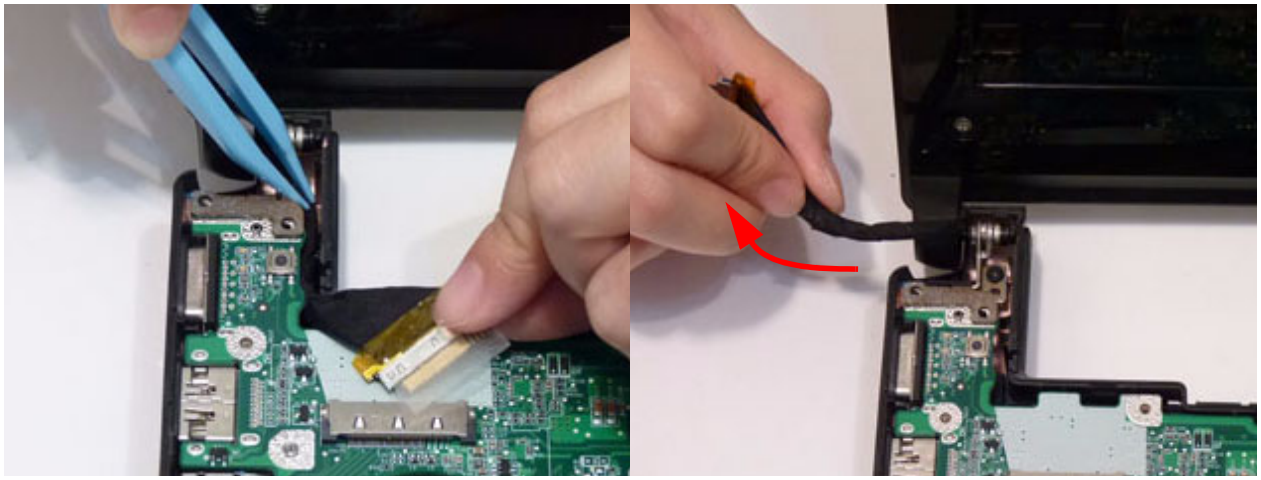
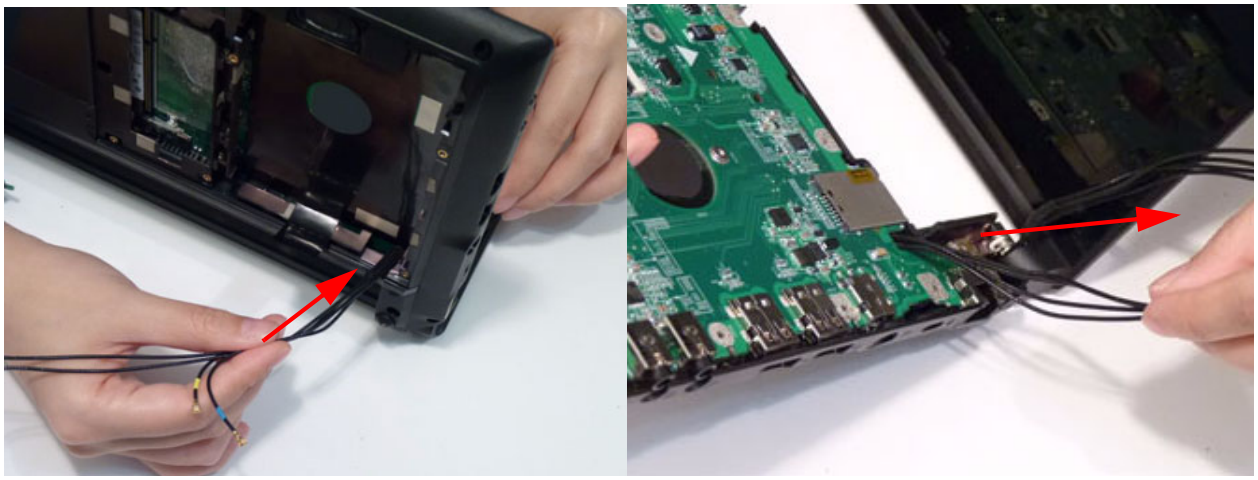
Removing the LCD Module

1. See “Removing the Upper Cover” on page 64.
2. Disconnect the LVDS cable and remove it from the cable channel.



3. Pass the WLAN and 3G antennas through the chassis.



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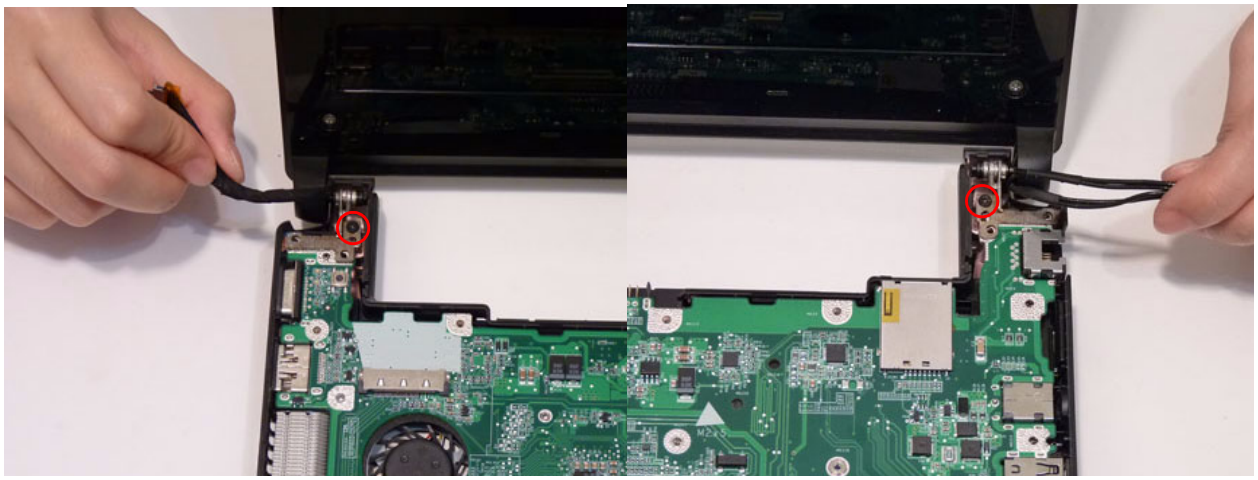
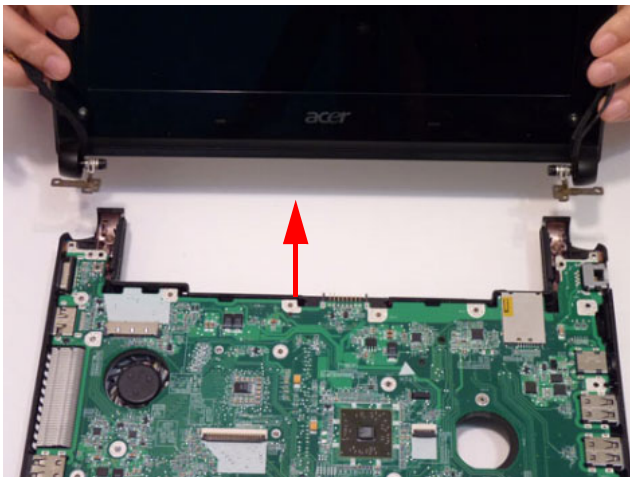
4. Remove two (2) screws from the hinge.



Step	Screw	Quantity	Screw Type
LCD Module Hinge Disassembly	M2.5*5	2	

5. Lif the LCD assembly clear of the chassis.



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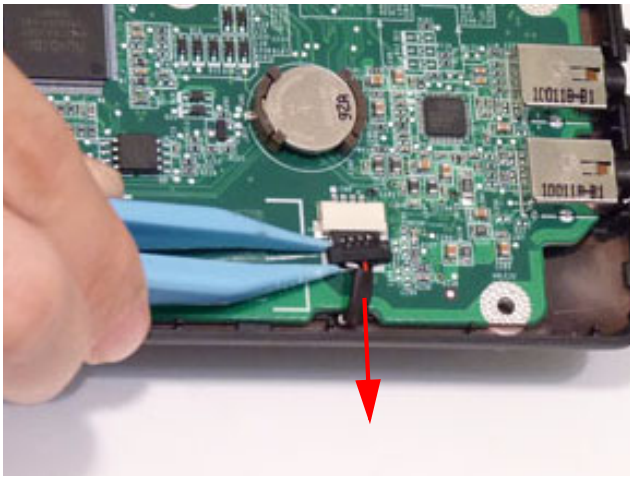
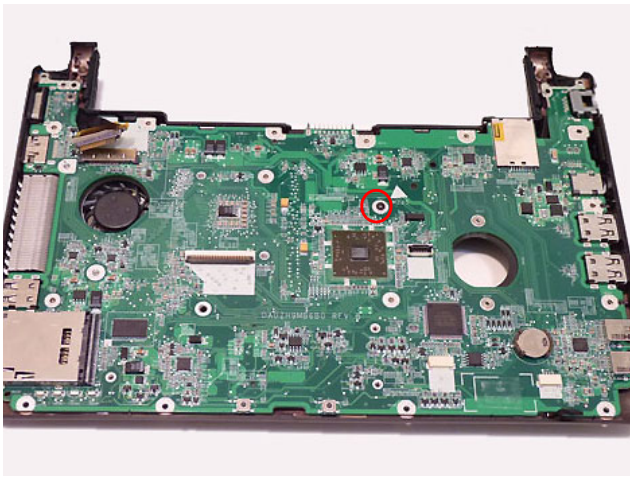
Removing the Mainboard

1. See “Removing the Upper Cover” on page 64.
2. See “Removing the Touchpad Board” on page 67.
3. See “Removing the Mainboard” on page 71.
4. Turn the computer over and disconnect the power cable from the mainboard.



5. Remove the one (1) screw on the main board.



Step	Screw	Quantity	Screw Type.
Main Board Disassembly	M2.5*5	1	

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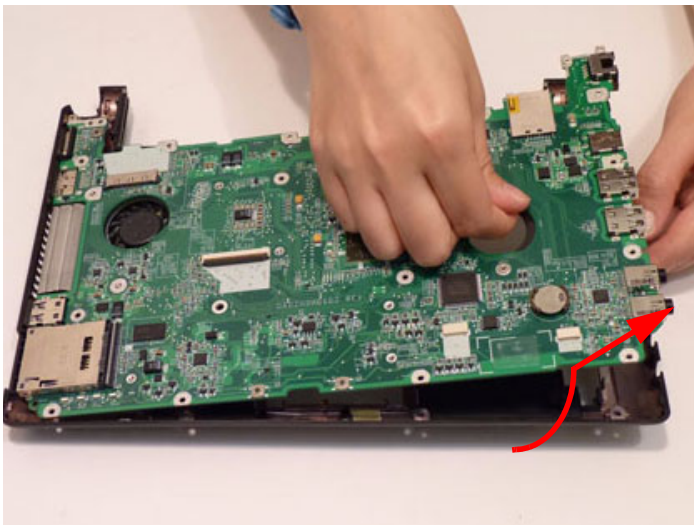
6. Lift the main board out of the assembly. Lift the I/O edge up first then pull out the external connector edge.



NOTE: The CPU is integrated on the mainboard.

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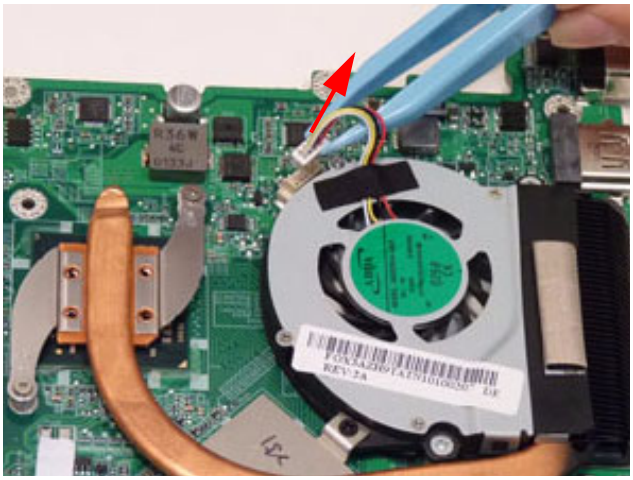
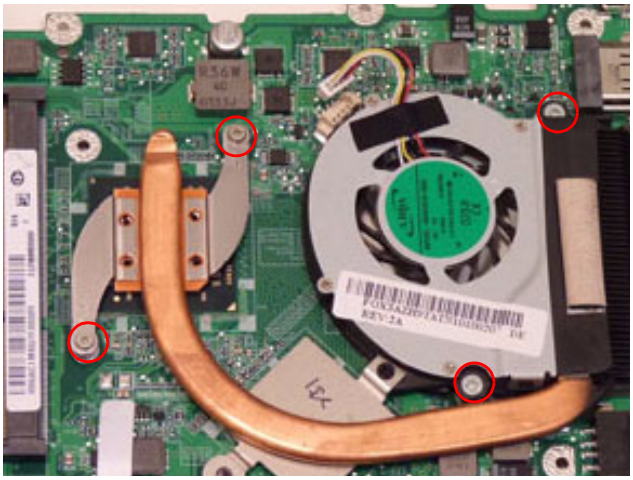
Removing the Thermal Module

1. See “Removing the Mainboard” on page 71.
2. Disconnect the thermal module fan connector.



3. Loosen the four (4) captive screws.



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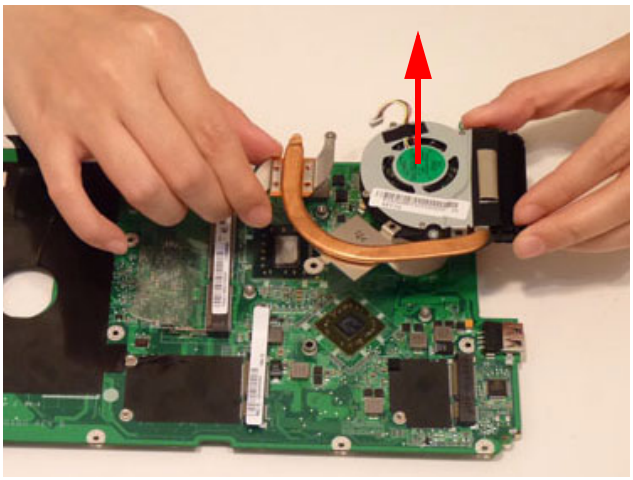
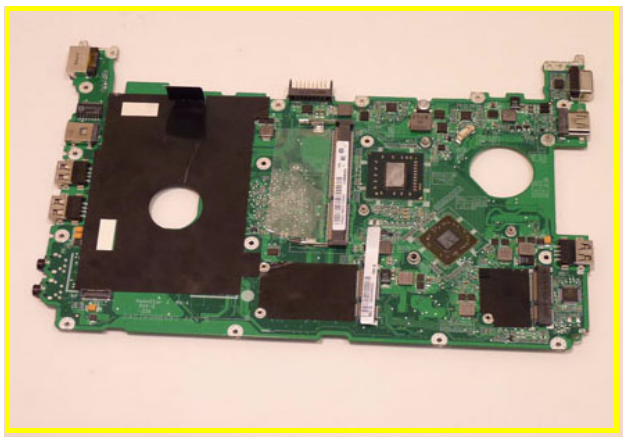
4. Lift the thermal module away from the main board.





NOTE: Circuit boards >10 cm² have been highlighted with a yellow rectangle as shown in the previous image. Please detach the circuit board and follow local regulations for disposal.

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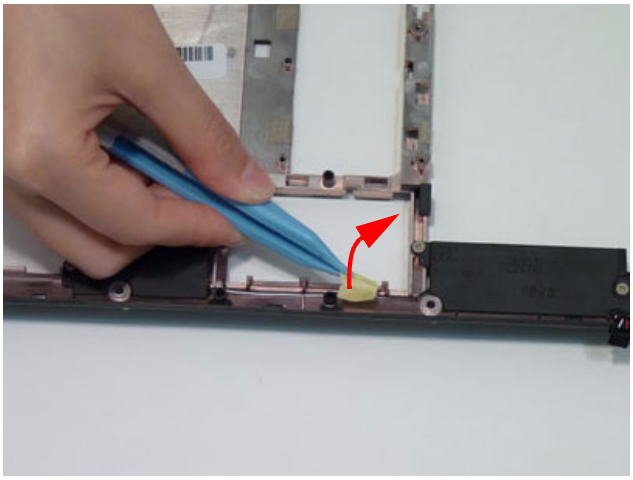
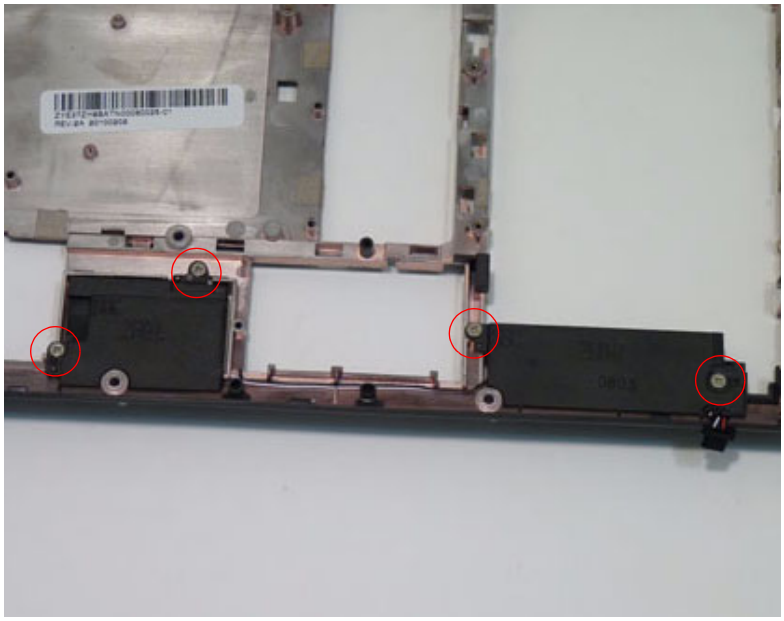
Removing the Speakers

1. See “Removing the Mainboard” on page 71.
2. Remove the adhesive tape from the speaker cable.



3. Remove four (4) screws from the power assembly bracket.



Step	Screw	Quantity	Screw Type
Speaker Disassembly		4	

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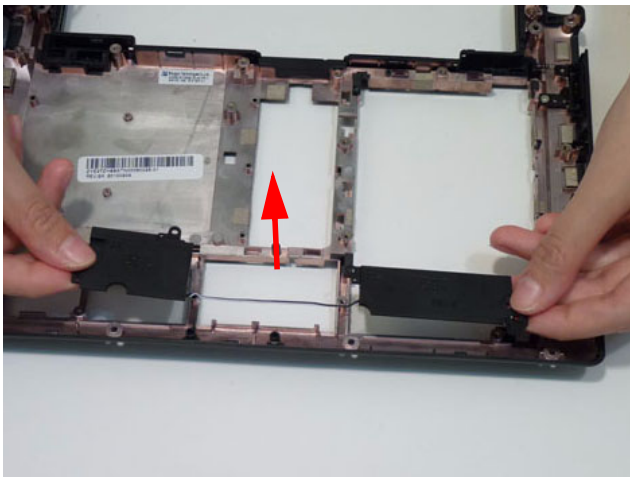
4. Lift the speakers clear of the lower cover.



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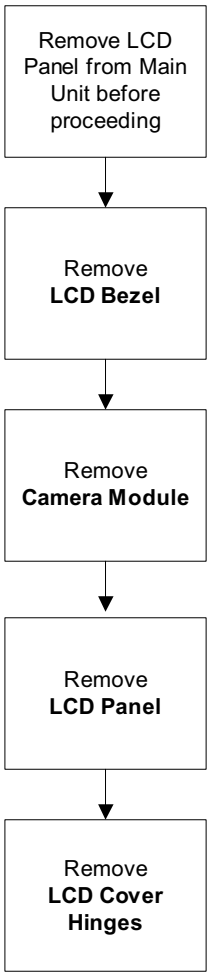
LCD Module Disassembly Process

IMPORTANT: Cable paths and positioning may not represent the actual model. During the removal and replacement of components, ensure all available cable channels and clips are used and that the cables are replaced in the same position.

NOTE: The product previews seen in the disassembly procedures may not represent the final product color or configuration.

NOTE: See "Removing the Bluetooth Module" on page 68 for instructions on how to remove the LCD module.

LCD Module Disassembly Flowchart


Remove LCD Panel from Main Unit before proceeding
Remove **LCD Bezel**
Remove **Camera Module**
Remove **LCD Panel**
Remove **LCD Cover Hinges**

Screw List

Step	Screw	Quantity	Part No.
Remove LCD Bezel			
Remove LCD Panel			
Remove Left Hinge			
Remove Right Hinge			

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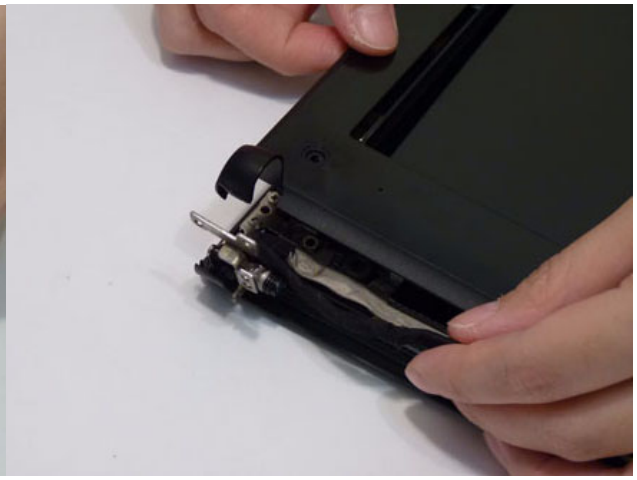
Removing the LCD Bezel

1. See “Removing the Touchpad Board” on page 67.
2. Remove the two (2) bezel screw covers and screws.

Step	Screw	Quantity	Screw Type
Remove LCD Bezel	M2.5*4	2	

3. Pry open the bottom corners and along the bottom edge.



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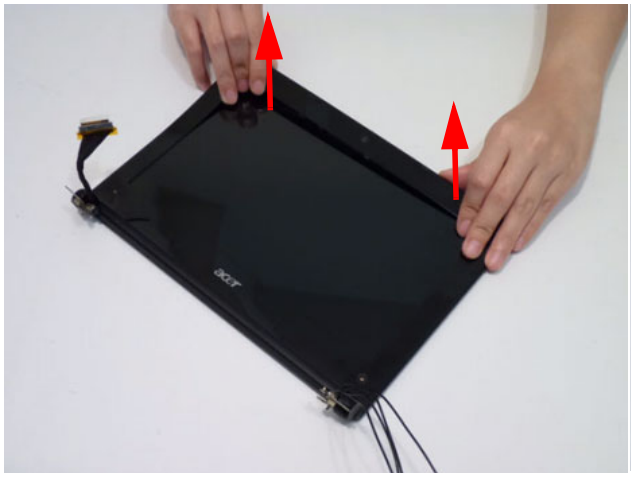
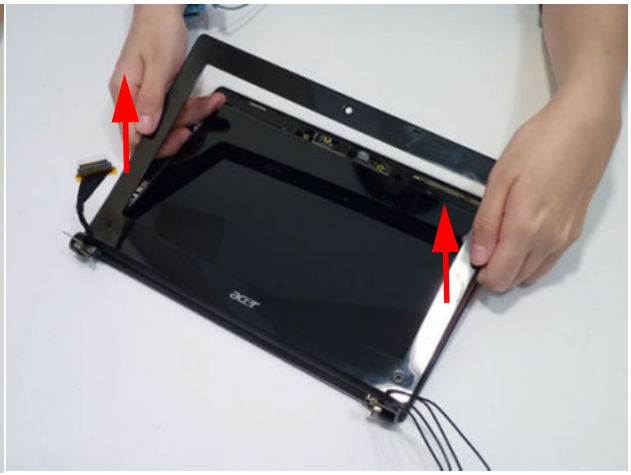
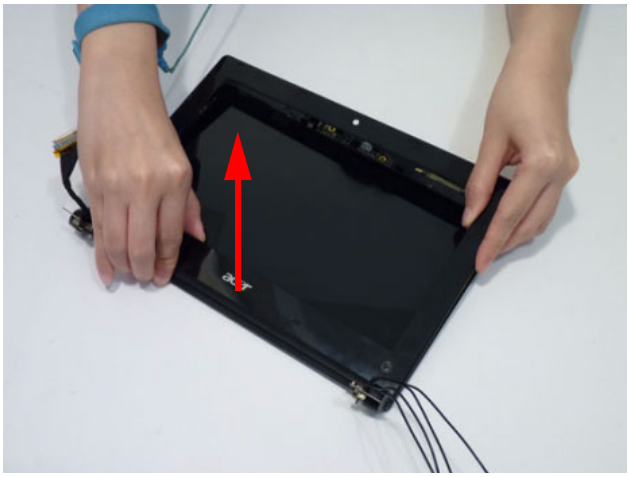
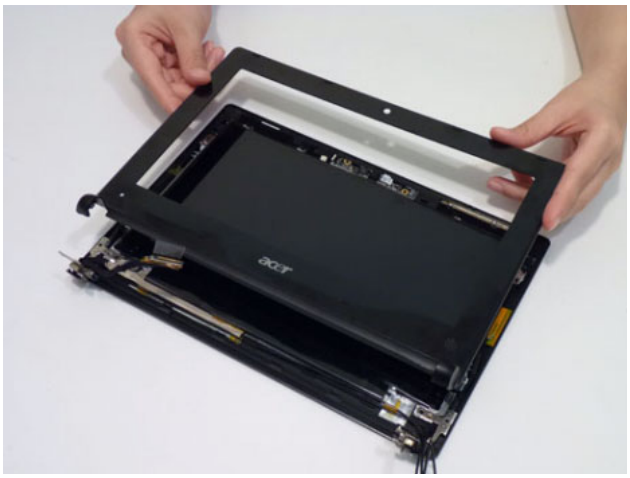
4. Pry the bezel away from the top and then work around the corners.







5. Lift the bezel off the module.



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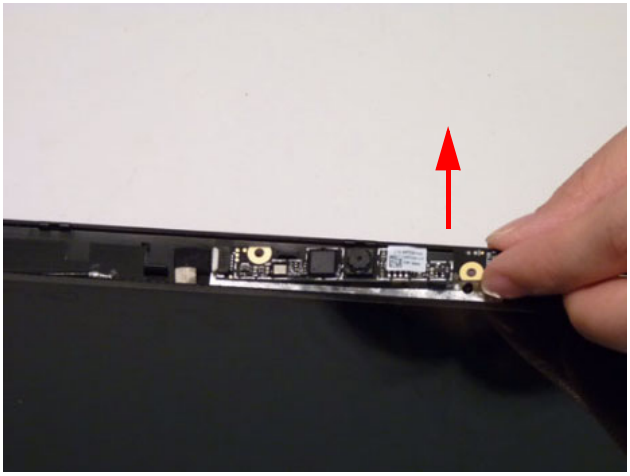
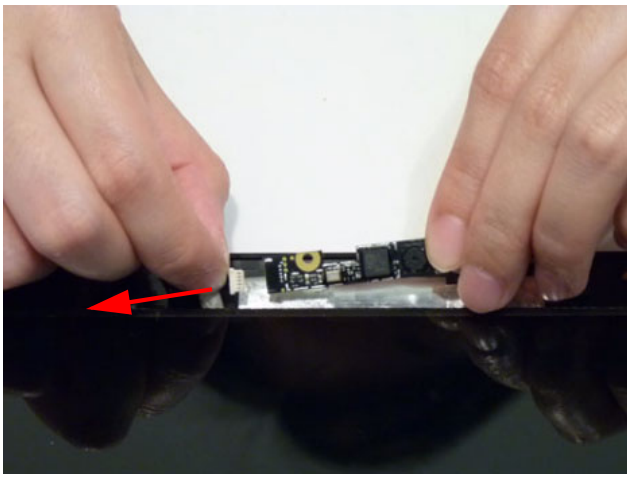
Removing the Camera Board

1. See “Removing the LCD Bezel” on page 78.
2. Pull up the camera board.



3. Disconnect the camera connector.



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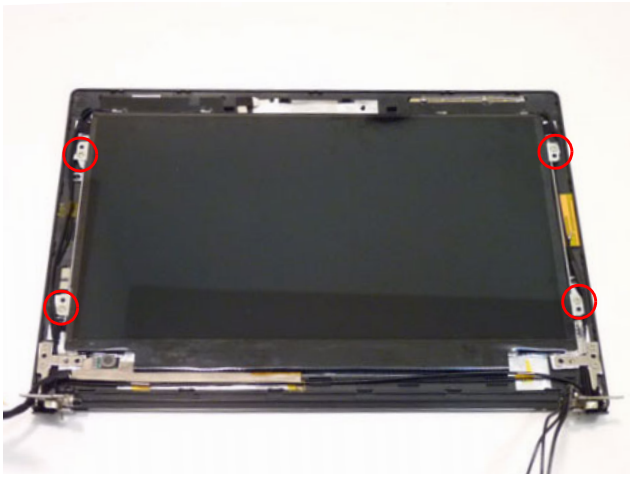
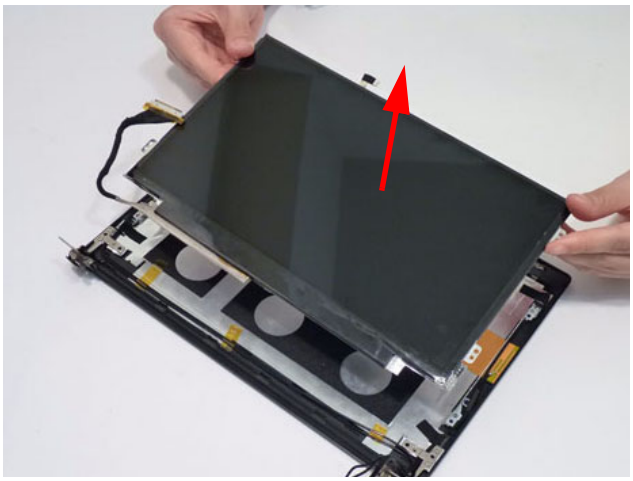
Removing the LCD Panel

1. See “Removing the Camera Board” on page 80.
2. Remove the four (4) screws of the LCD panel.



Step	Screw	Quantity	Screw Type
Remove LCD Panel	M2x3	4	

3. Lift the panel clear of the cover.



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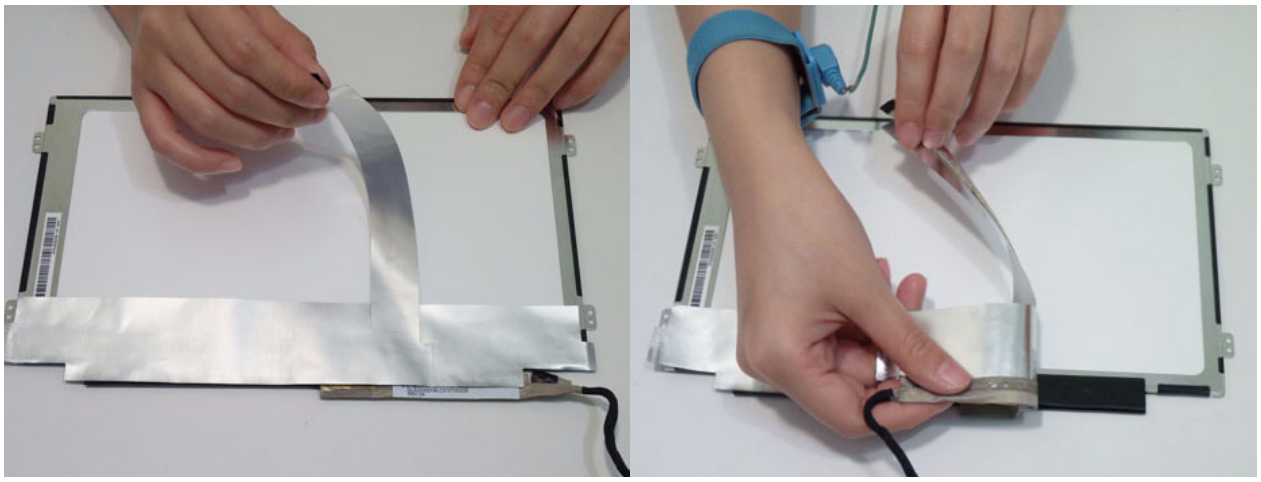
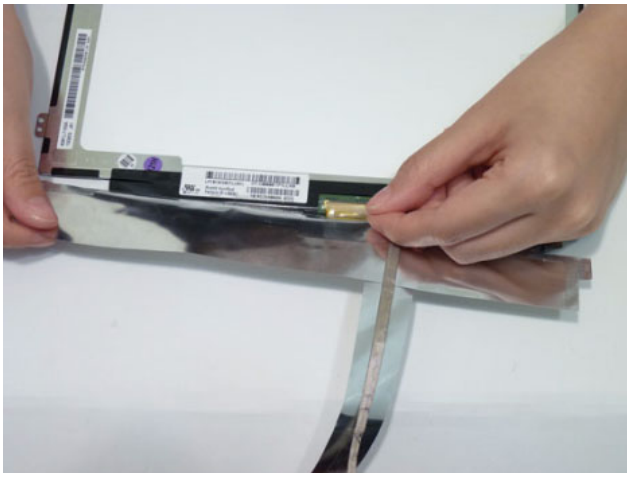
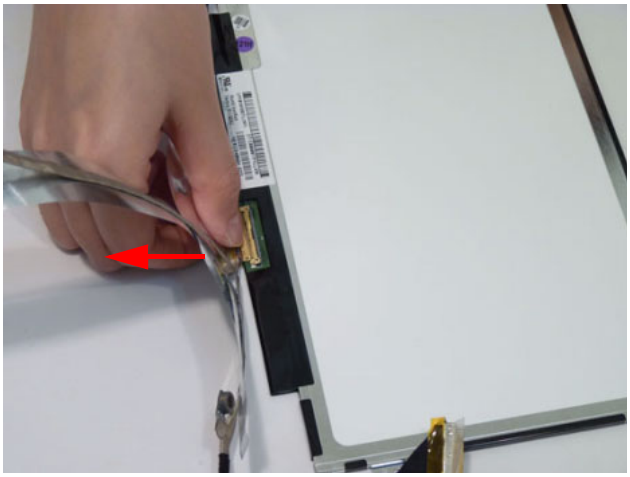
4. Peel the LVDS cable and mylar off the LCD panel as shown.





5. Disconnect the LVDS cable.



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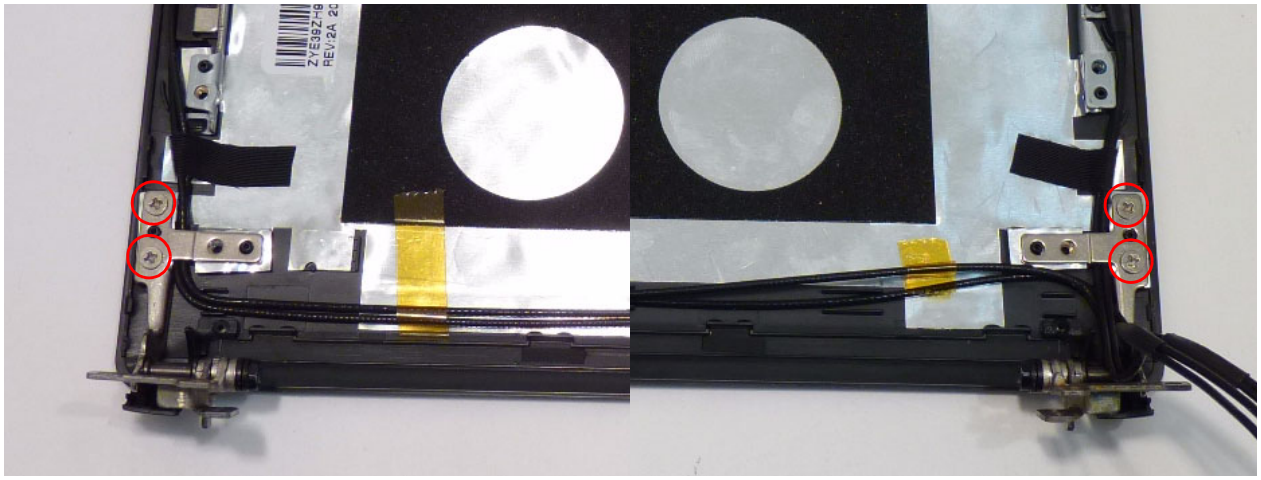
Removing the LCD Cover Hinges

1. See “Removing the LCD Panel” on page 81.
2. Remove four (4) screws from the LCD cover hinges.



Step	Screw	Quantity	Screw Type
Remove Cover Hinges		4	

3. Remove the right and left LCD cover hinges.

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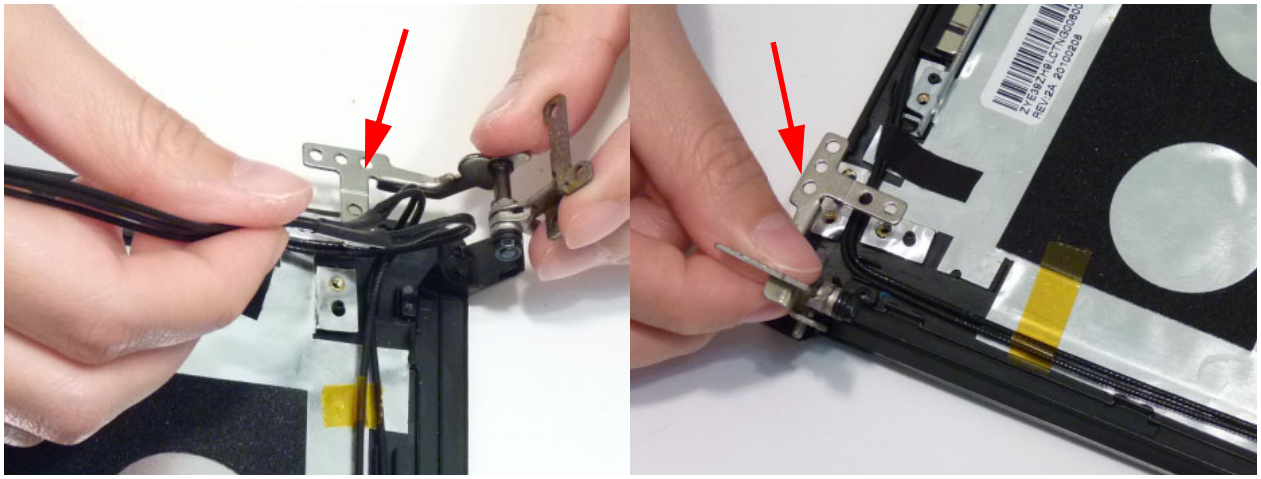
LCD Reassembly Procedure

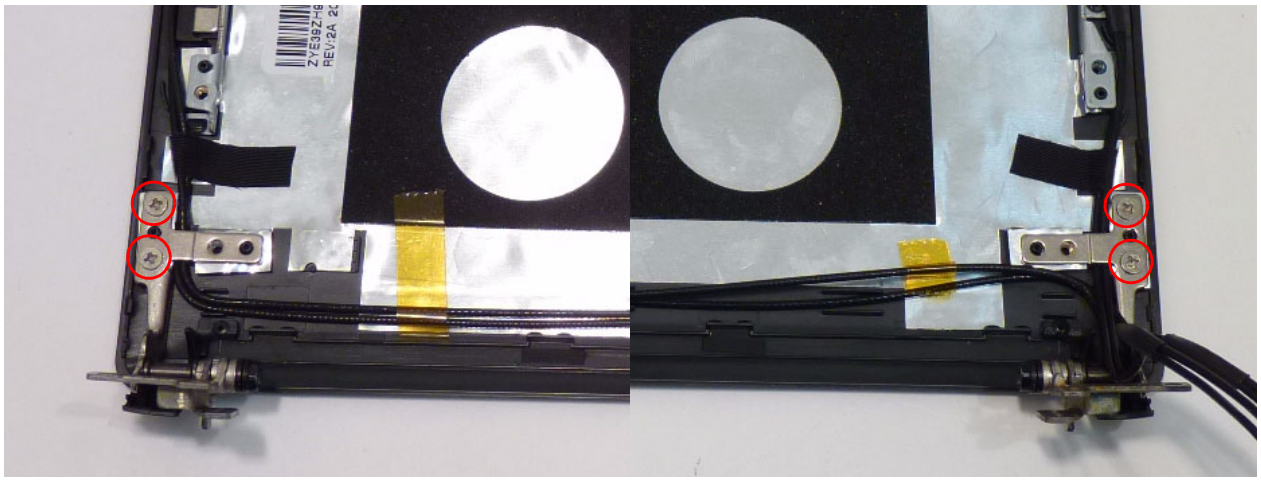
NOTE: During manufacture a cyanoacrylate glue is used provided by Holdtite Adhesives LTD. This is not a specified requirement. The reassembler is free to select an alternative appropriate adhesive.

Replacing the LCD Cover Hinges

1. See “Replacing the LCD Cover Hinges” on page 84.
2. Place the right and left LCD cover hinges in the cover.



3. Secure the hinges using four (4) screws.



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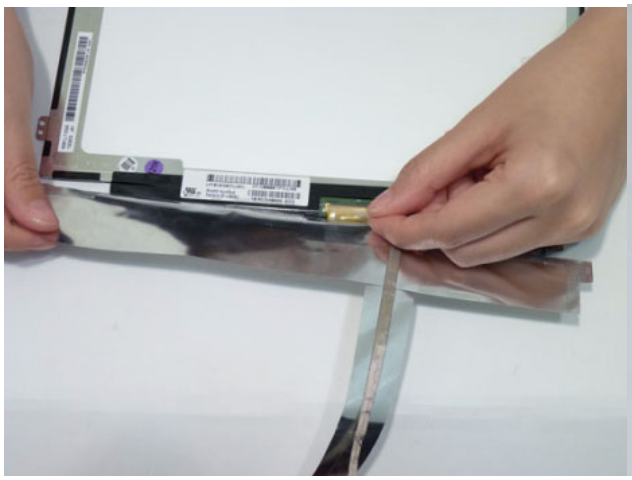
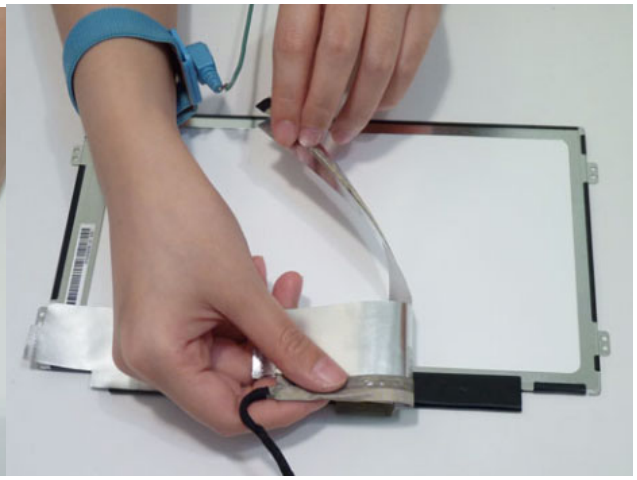
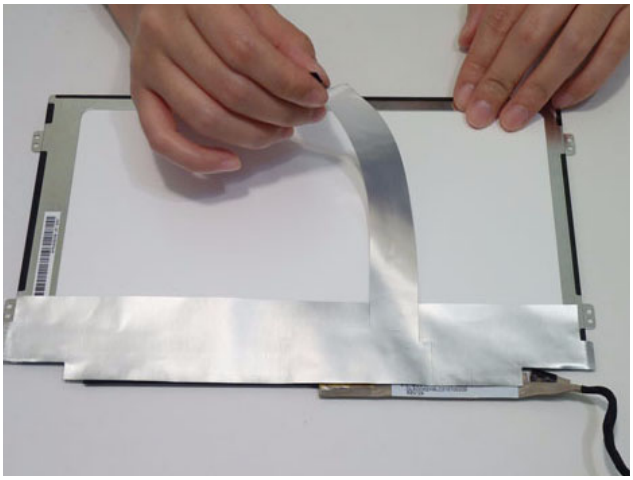
Replacing the LCD FPC Cable

1. Connect the FPC cable connector.

2. Adhere the FPC cable to the panel.







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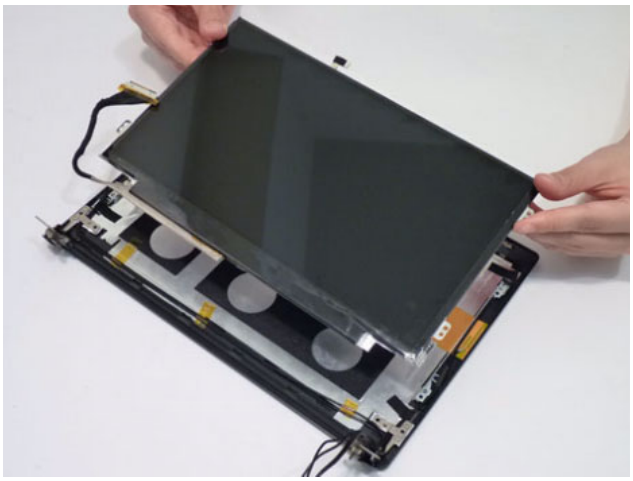
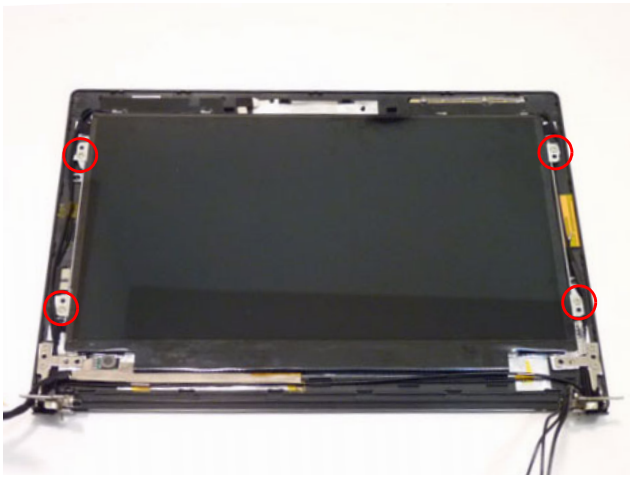
Replacing the LCD Panel

3. Place the LCD panel in the cover.



4. Replace the four (4) screws, while ensuring the cables pass through the hinge correctly.



Step	Screw	Quantity	Screw Type
LCD Panel Assembly		4	

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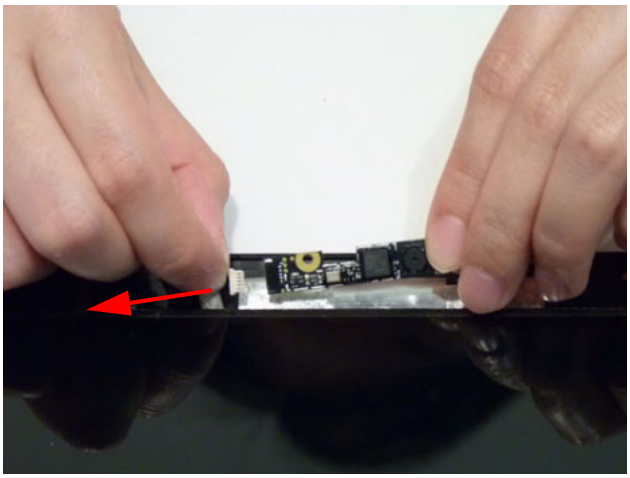
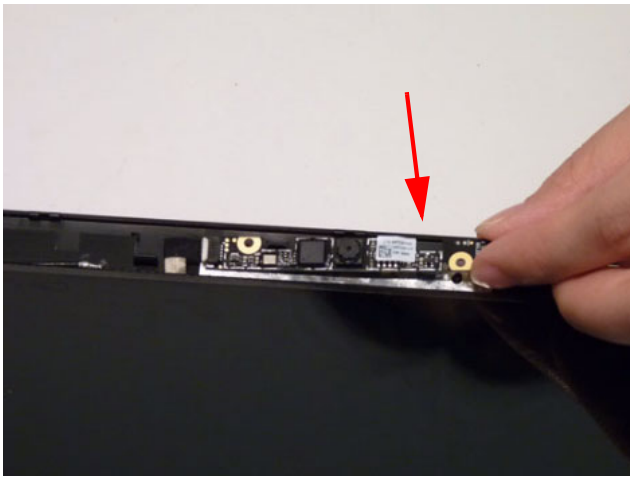
Replacing the Camera Board

1. Connect the camera cable to the board as shown.



2. Press the camera board into the cover.



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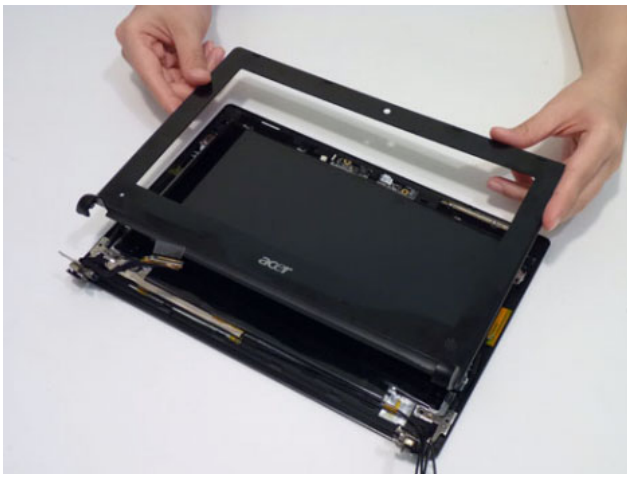
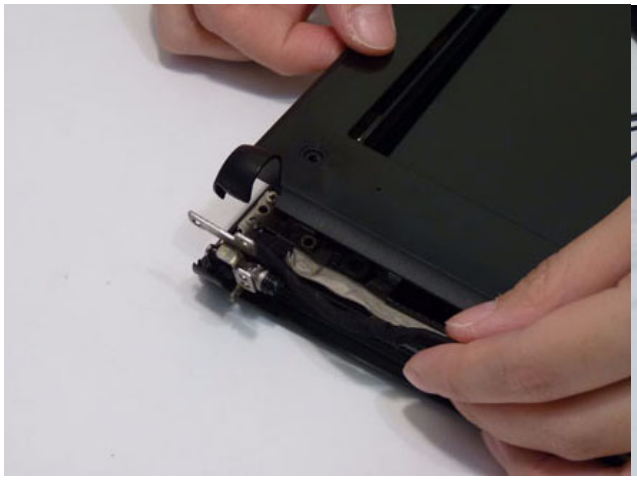
Replacing the LCD Bezel

1. Place the LCD bezel on the cover.



2. Ensure the cables are correctly exiting the hinges.



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3. Press down on the top middle edge of the bezel to engage the locking clips. Press down on the bezel edge working simultaneously around the edges to the bottom.

4. Replace the two (2) bezel screws and screw covers.

Step	Screw	Quantity	Screw Type
Replace LCD Bezel	M2.5*4	2	

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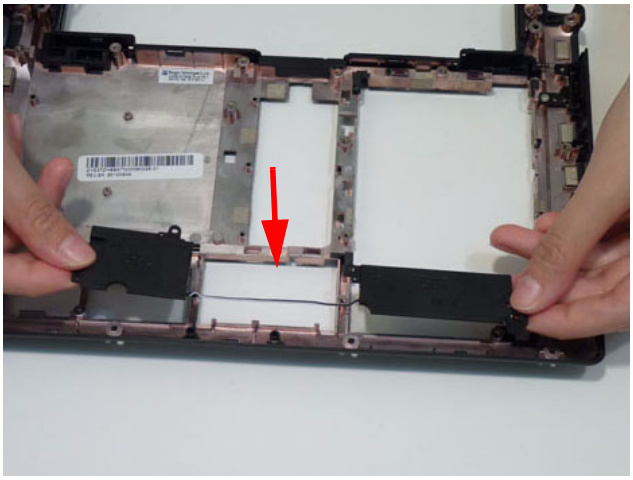
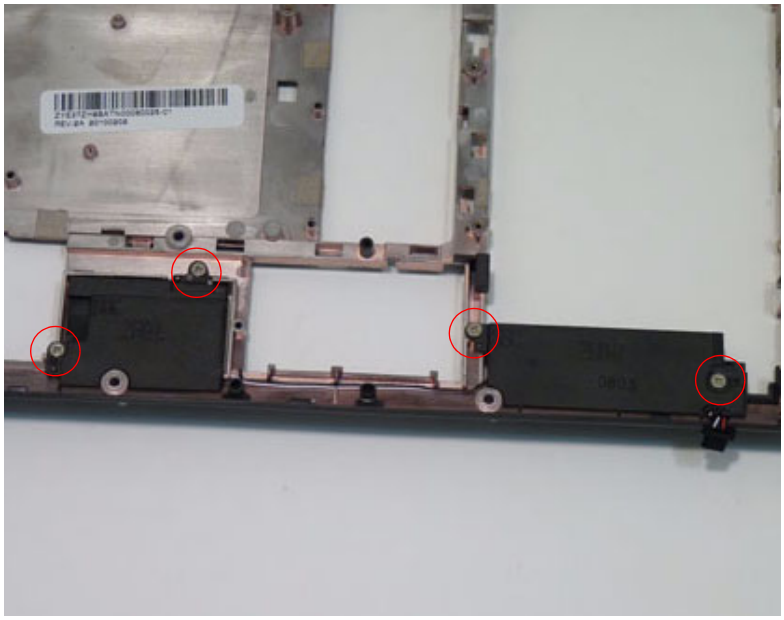
Main Unit Reassembly Process

Replacing the Speakers

1. Place the speakers in the upper cover.



2. Secure the speakers using four (4) screws.



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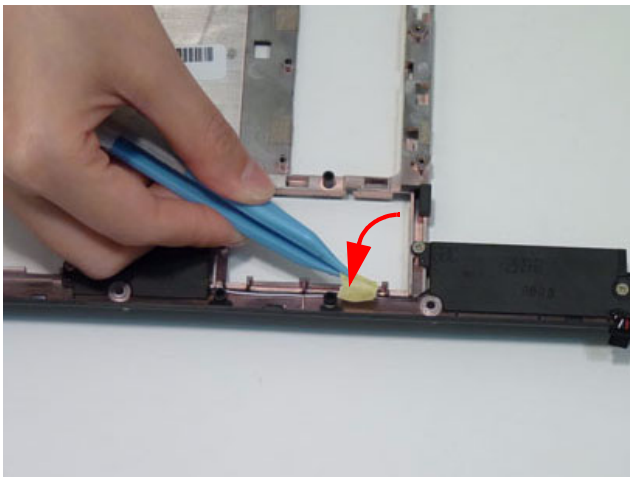
3. Secure the speaker cable using a strip of adhesive tape.



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Replacing the Thermal Module

IMPORTANT: Apply a suitable thermal grease and ensure all heat pads are in place before replacing the Thermal Module.

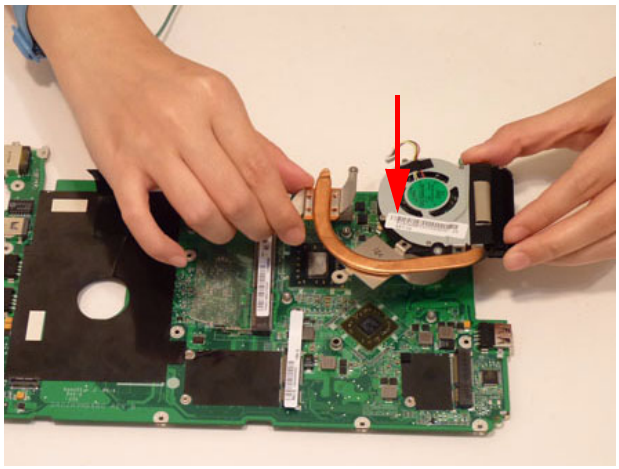
The following thermal grease types are approved for use:

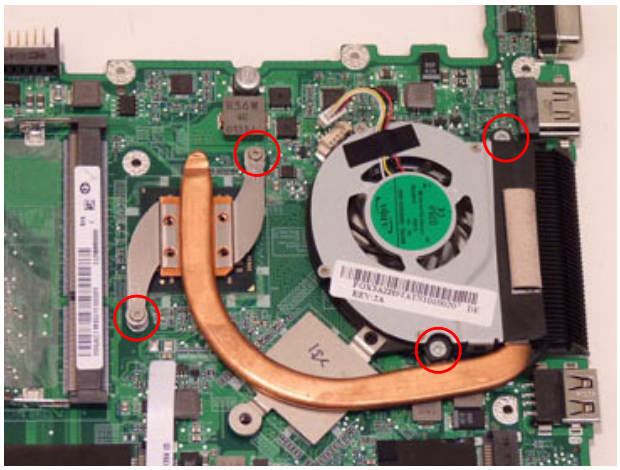
- Silmore GP50
- Honeywell
- Jet Motor 7762

The following thermal pads are approved for use:

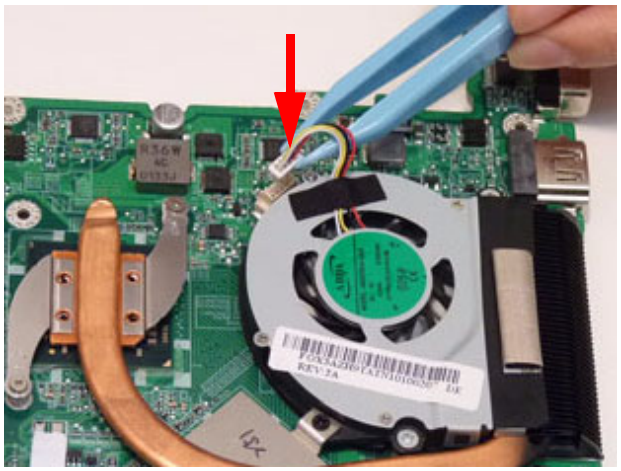
- Eapus XR-PE

1. Remove all traces of thermal grease from the CPU using a lint-free cloth or cotton swab and Isopropyl Alcohol, Acetone (1), or other approved cleaning agent.
2. Apply a small amount of thermal grease to the centre of the CPU—there is no need to spread the grease manually, the force used during the installation of the Thermal Module is sufficient.
3. Align the screw holes on the Thermal Module and Mainboard then replace the module. Keep the module as level as possible to spread the thermal grease evenly.
4. Tighten the four (4) securing screws to secure the Thermal Module in place.





5. Connect the fan cable.



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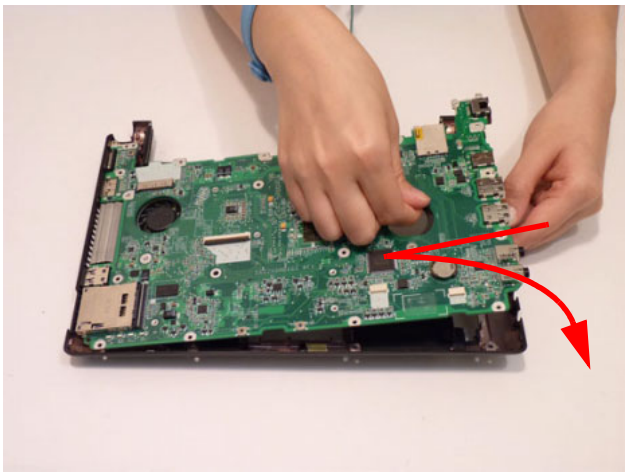
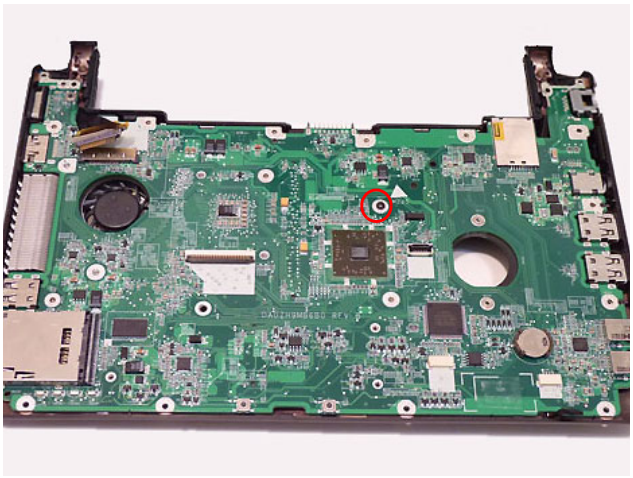
Replacing the Mainboard

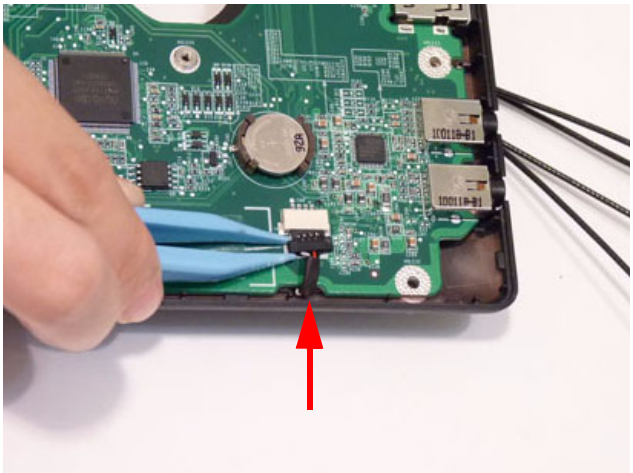
1. Slide the main board external connector edge in first to the lower case, then lower into place.



2. Replace the one (1) screw to secure the mainboard to the lower cover.



3. Connect the power connector.



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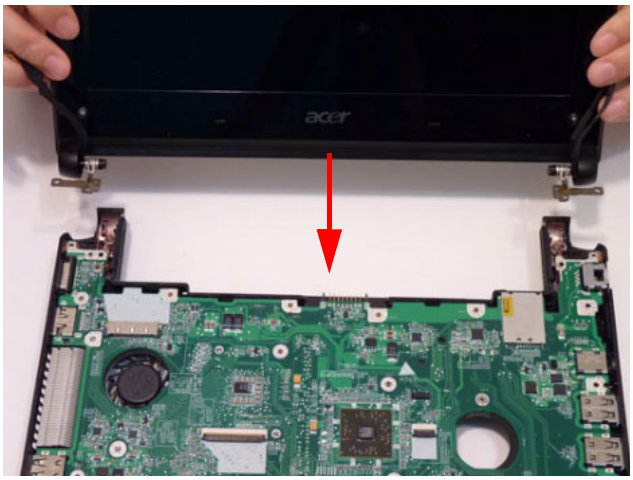
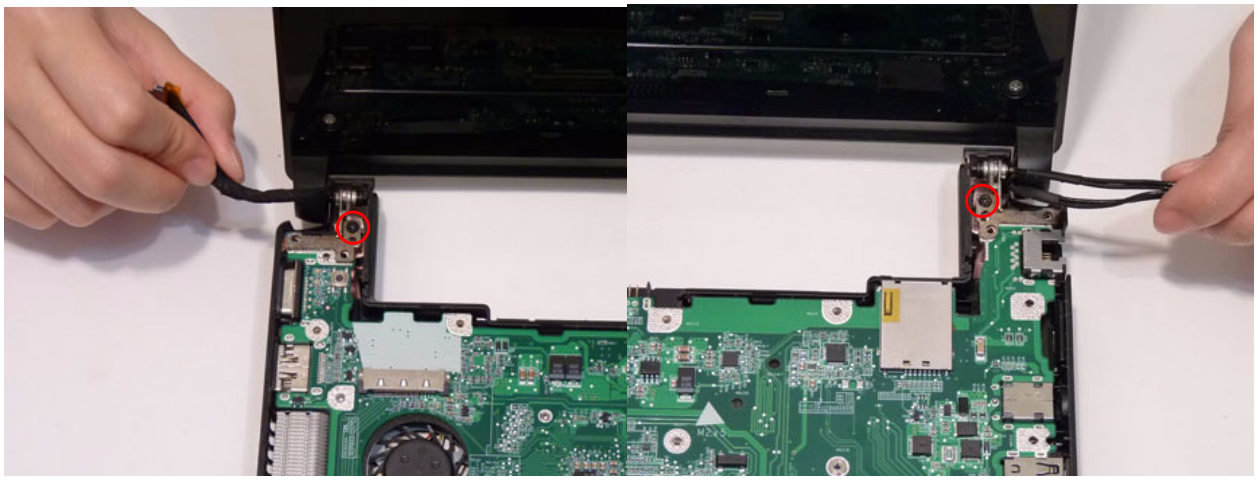
Replacing the LCD Module

1. Place the LCD module hinges into position on the lower case.

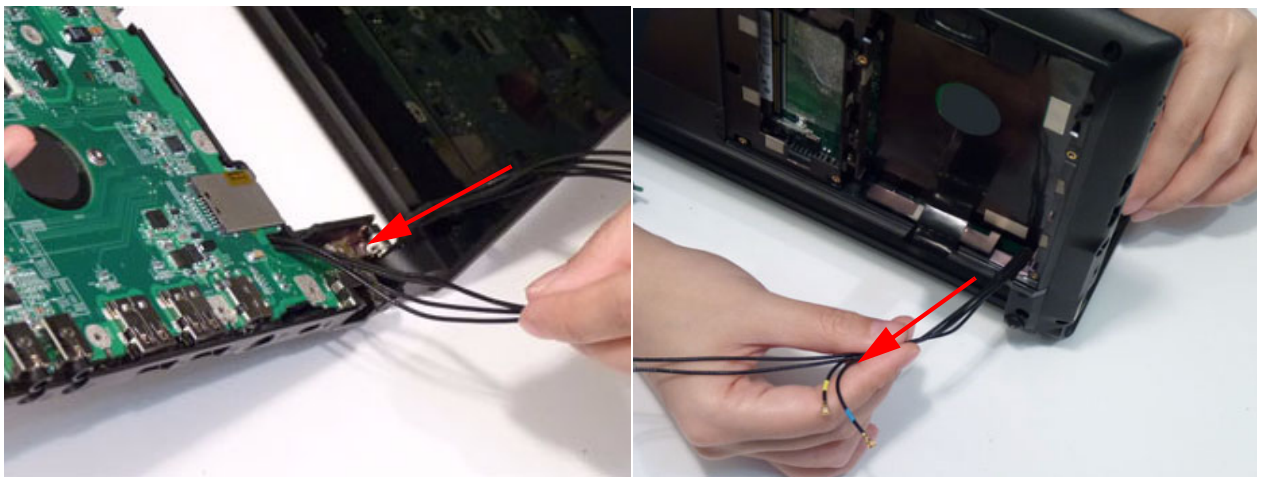


2. Replace the two (2) screws.



Step	Screw	Quantity	Screw Type
LCD Module Assembly	M2.5x5	2	

3. Insert the right antenna cables through the lower cover and pull through from the other side.



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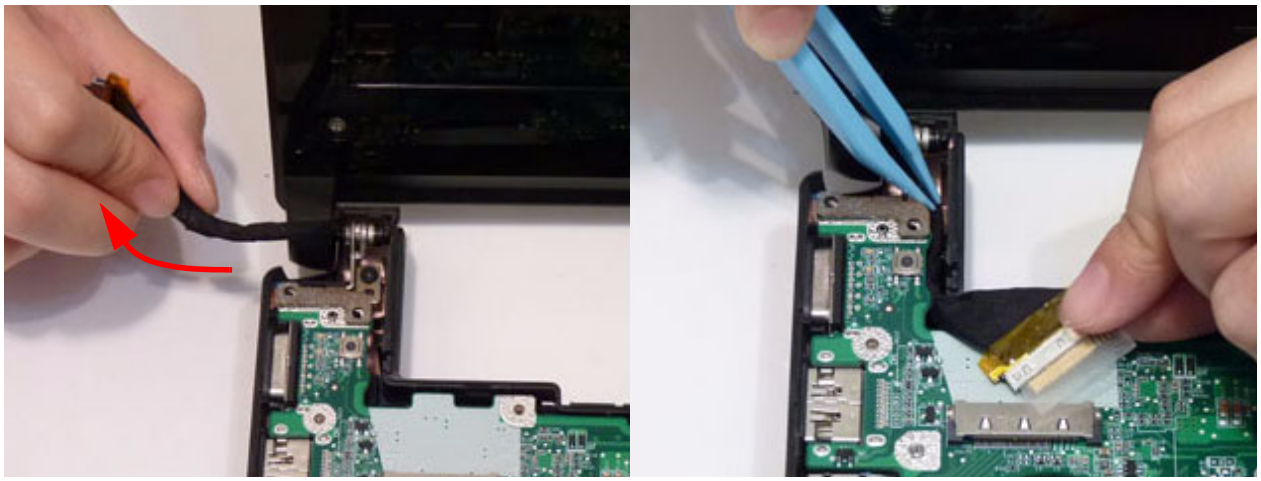
4. Place the LVDS cable in the hinge channel as shown.



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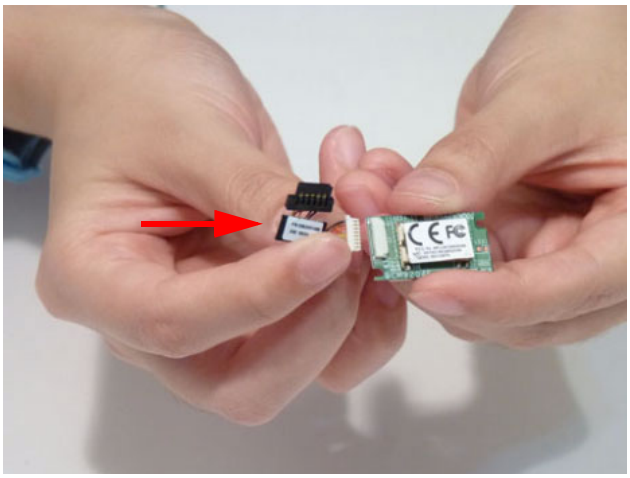
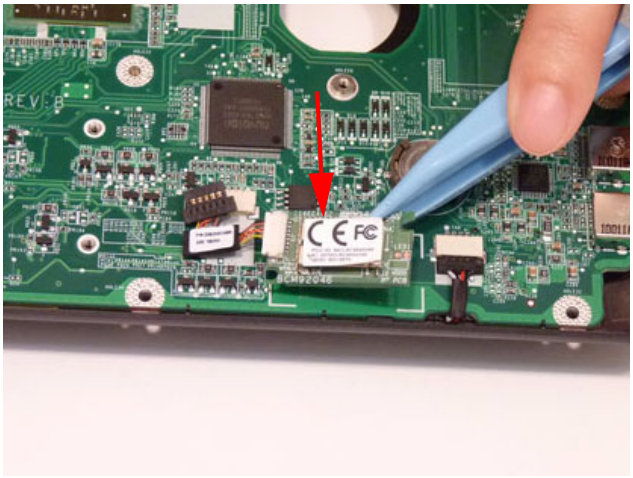
Replacing the Bluetooth Module

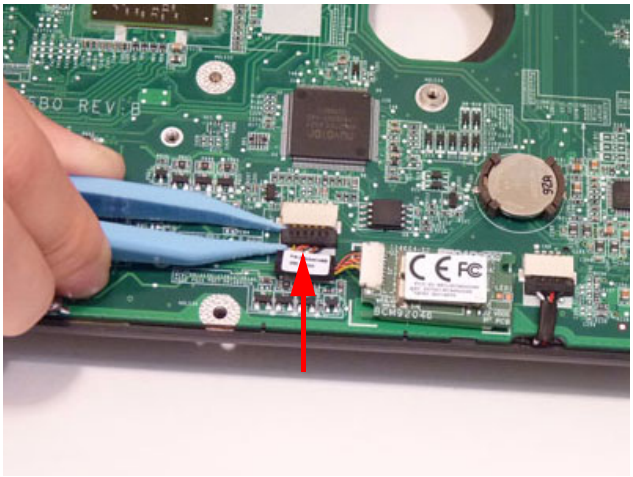
1. Connect the Bluetooth cable to the Bluetooth module.



2. Place the Bluetooth module onto the mainboard and press down firmly.



3. Connect the Bluetooth module cable to the main board.



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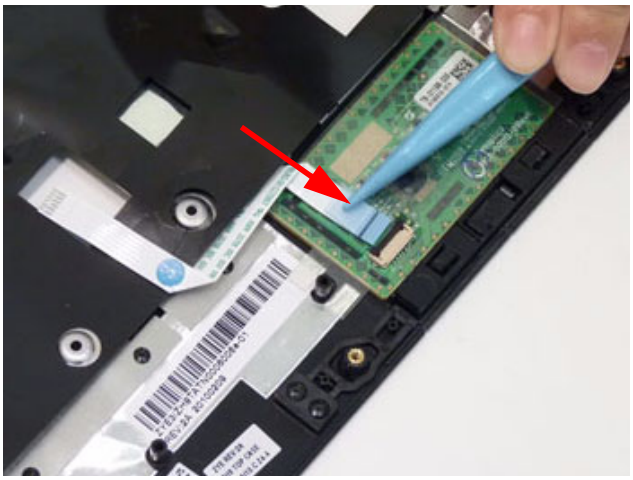
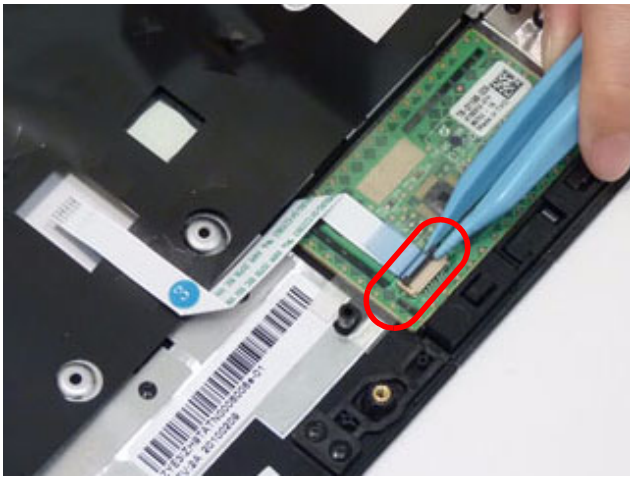
Replacing the Touchpad Board

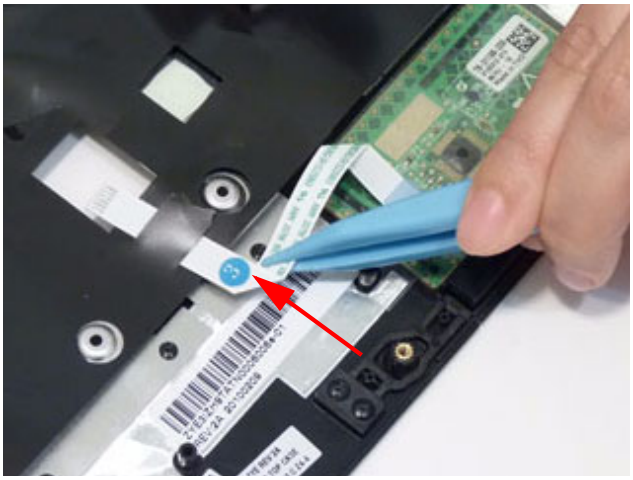
1. Connect the touchpad FFC.



2. Lock the touchpad FFC connector.



3. Pass the touchpad board FFC through the upper cover.



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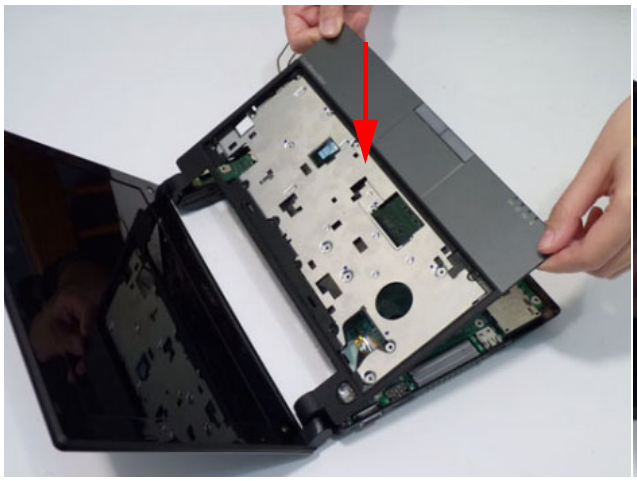
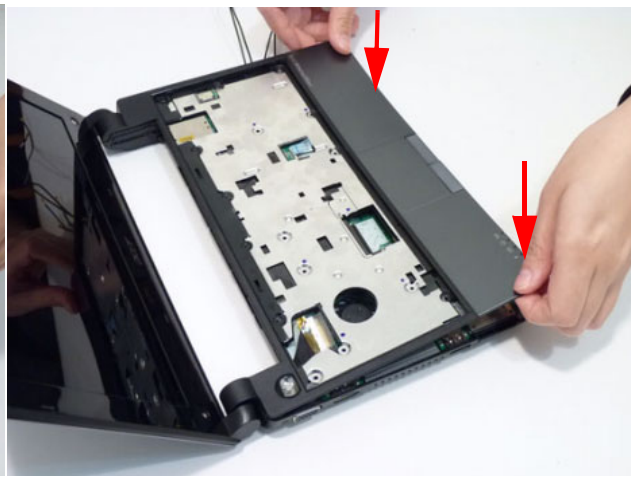
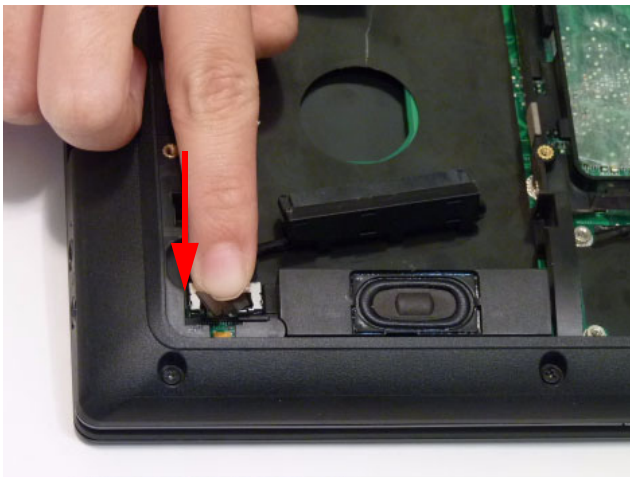
Replacing the Upper Cover

1. Place the upper cover onto the lower cover aligning the hinges first and then press down around the edges.





2. Press the HDD connector into the chassis.



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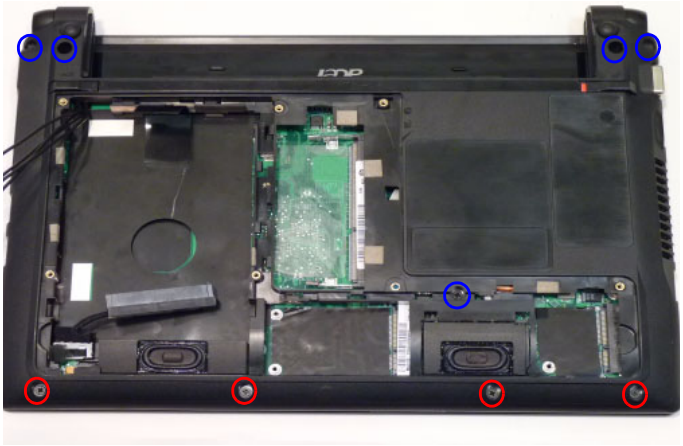
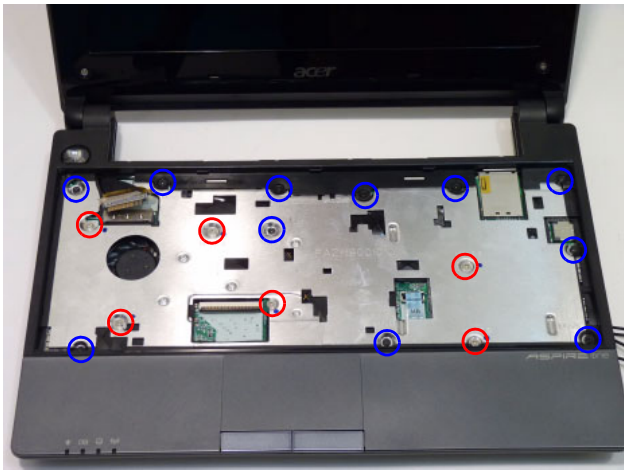
3. Replace nine (9) screws on the lower cover.



Step	Screw	Quantity	Screw Type
Lower Cover Disassembly	(red call out)	4	
	(blue call out)	5	

4. Replace the seventeen (17) screws on the upper cover.



Step	Size	Quantity	Screw Type
Upper Cover Assembly	M2*3	11 (blue call out)	
	M2*5 Ni	6 (red call out)	

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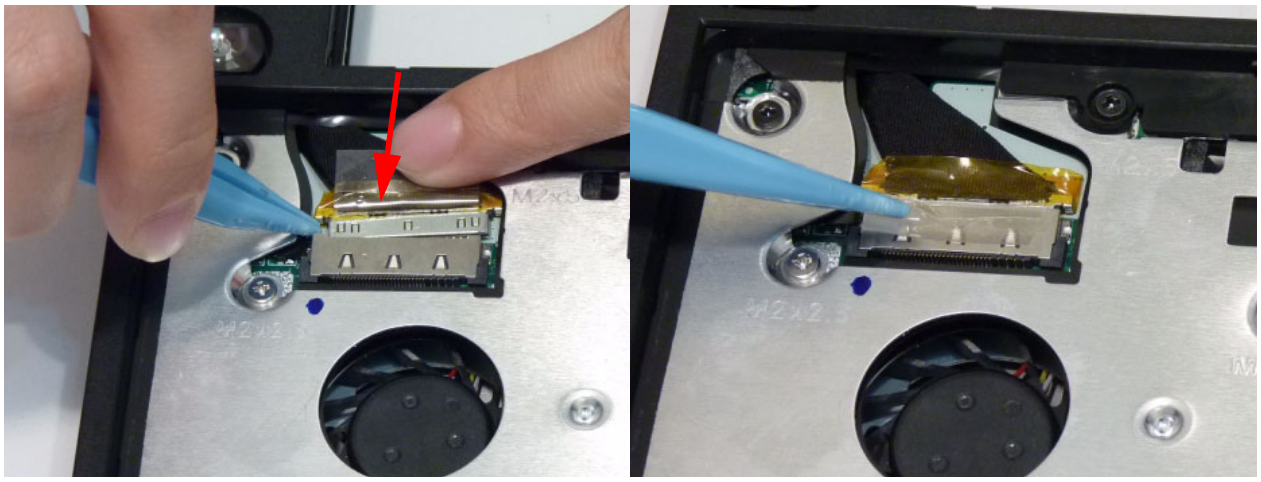
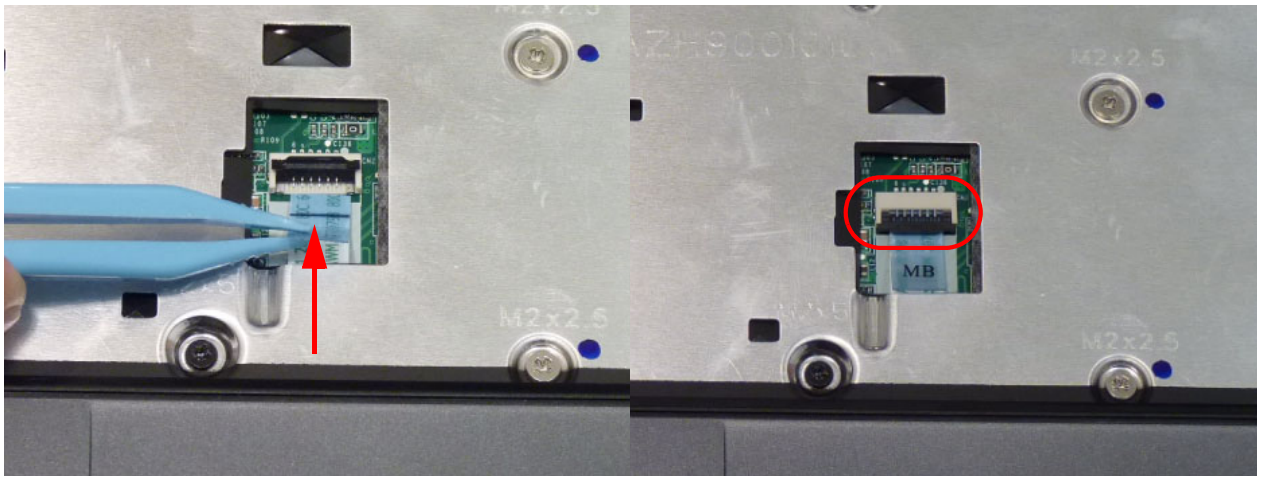
5. Connect the LVDS cable to the mainboard and fold over the mylar to secure the connector.



6. Connect and lock the touchpad FFC.



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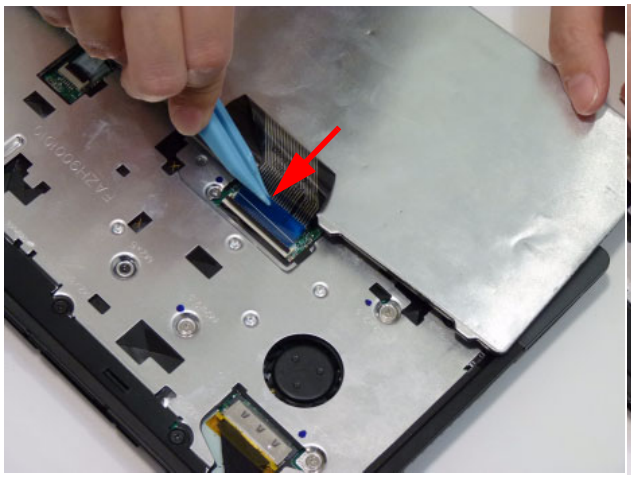
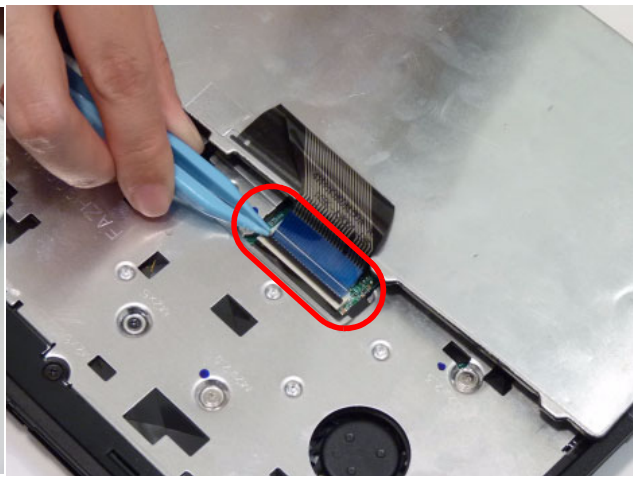
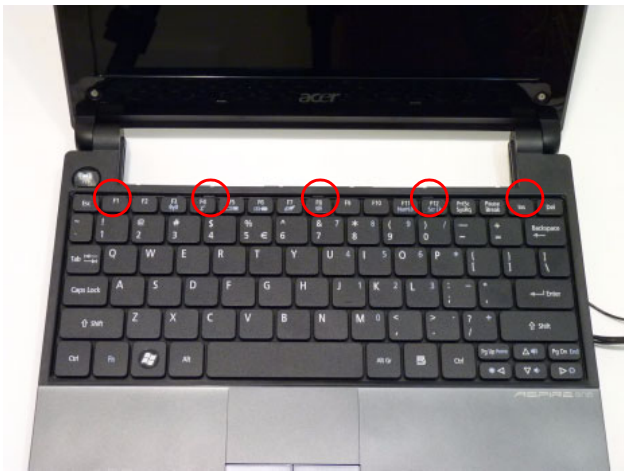
Replacing the Keyboard

1. Connect and lock the FFC to the mainboard.

2. Turn the keyboard over and insert the bottom edge in first, then push to down ensure the latches across the top are fully secured.



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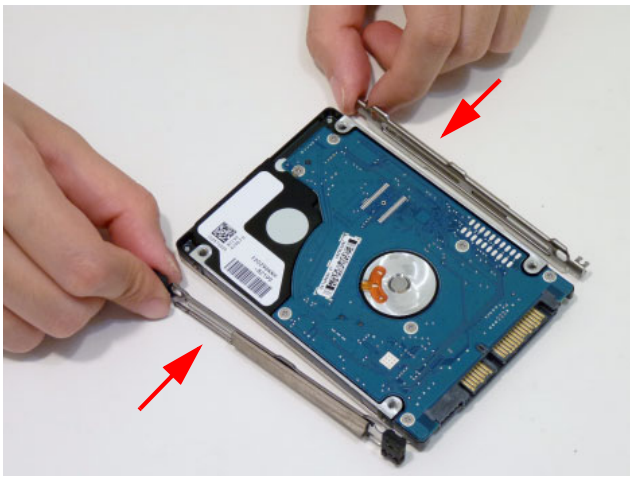
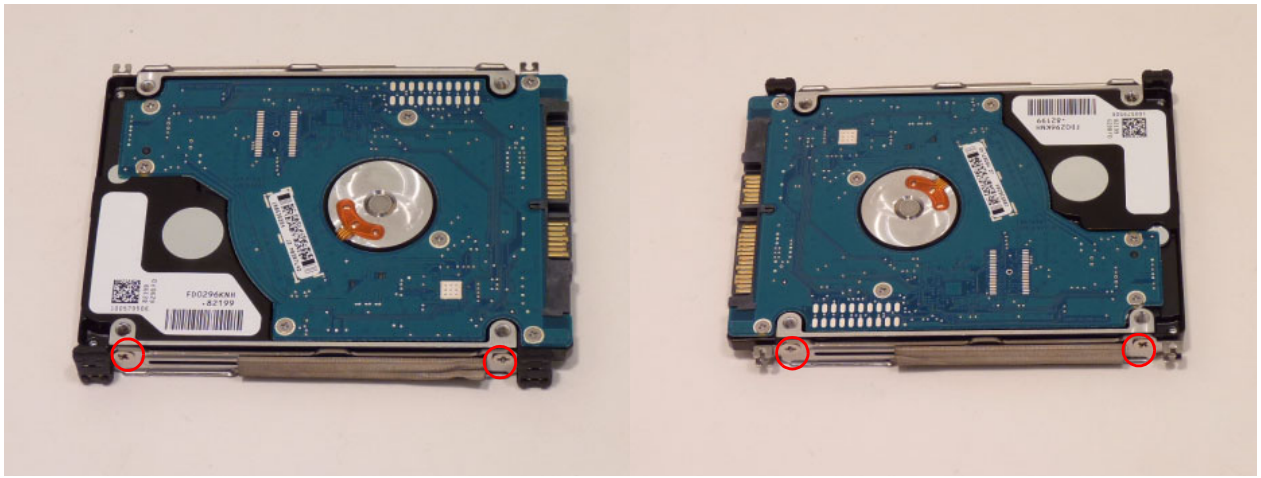
3. Replace the HDD brackets on the HDD.



4. Replace four (4) screws (two each side) to secure the bracket to the HDD module.



1. Connect the HDD module to the connector.

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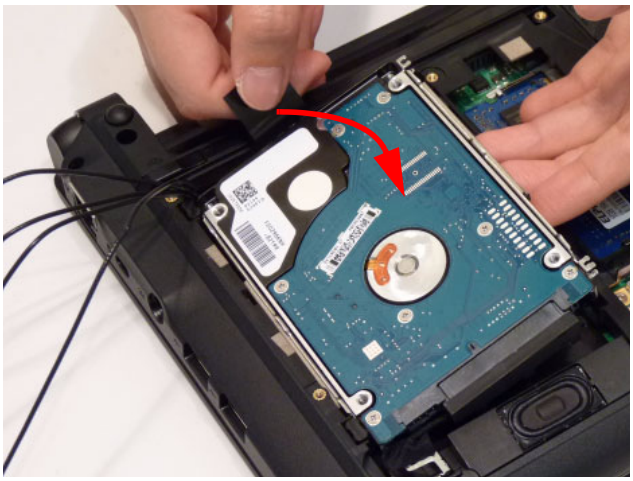
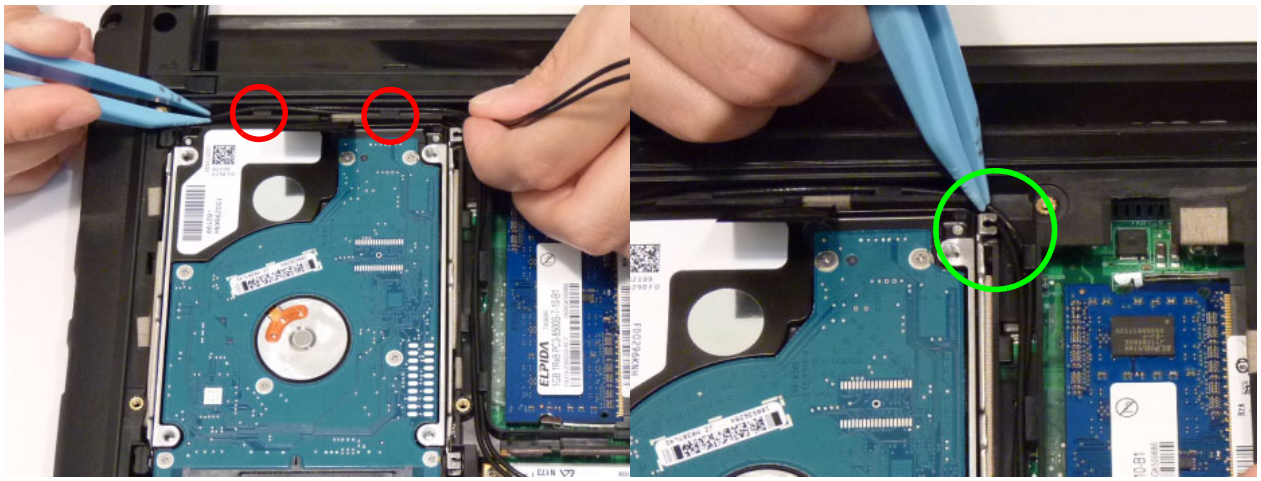
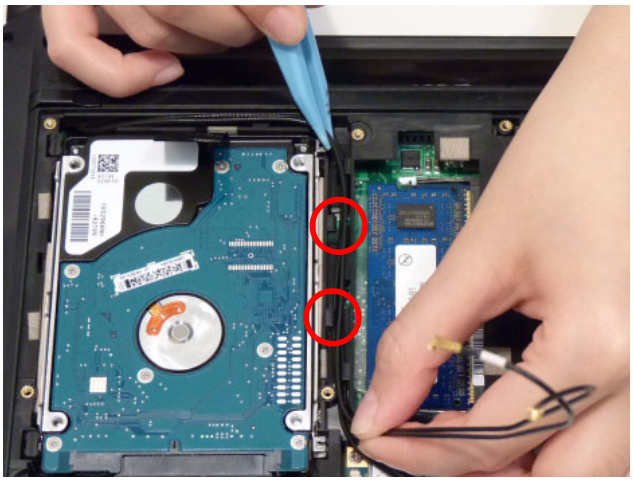
2.



3. Run the 3G and WLAN antennas along the cable channel as shown.

CAUTION: Carefully tuck the cable under the metal hinge (highlighted in green).





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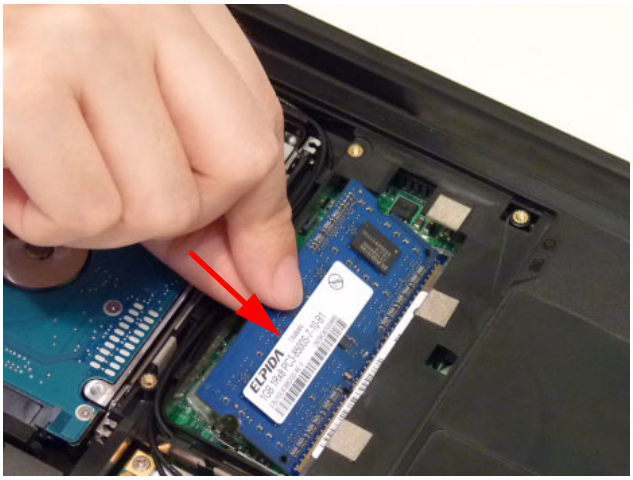
Replacing the DIMM Module

IMPORTANT: See “BIOS Recovery” on page 129.

1. Slide the DIMM module into the connector.



2. Press down till the locking springs click into place.

3. Repeat steps 1. and 2. until all DIMMs have been replaced.

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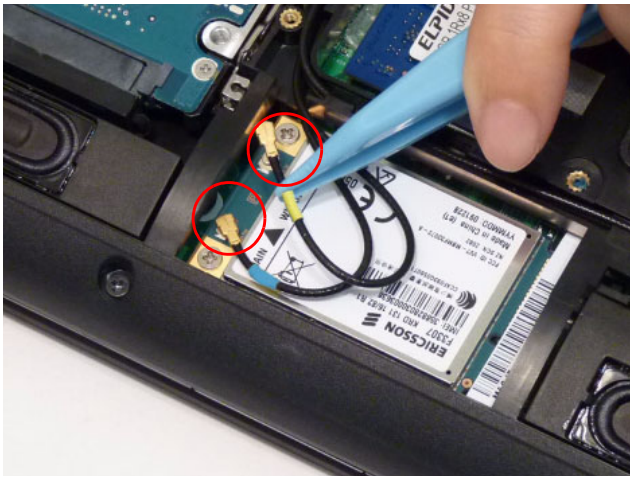
Replacing the 3G Module

1. Insert the 3G card into the slot.

2. Replace two (2) screws on the 3G card.

3. Connect the two (2) 3G antennas.



NOTE: Please note that the blue antenna must be connected to the **Main** connector and the yellow antenna must be connected to the **Auxiliary** connector.

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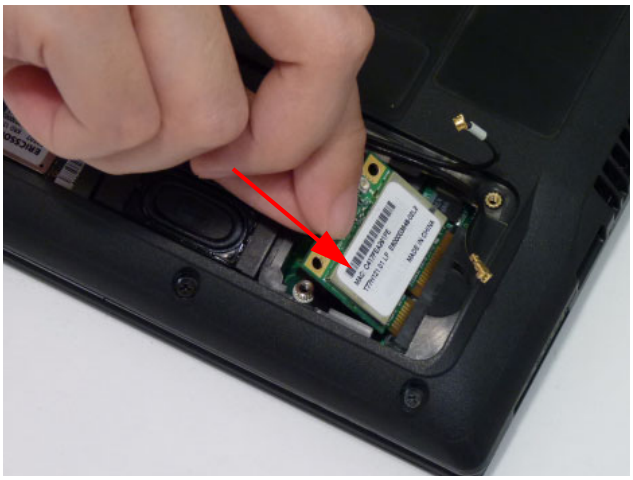
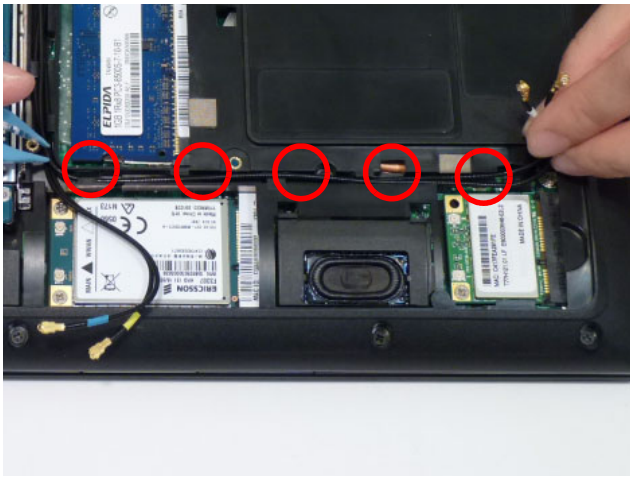
Replacing the Wireless LAN Module

1. Insert the WLAN card into the slot.



2. Replace one (1) screw to secure the card.

3. Run the WLAN antennas along the cable channel.



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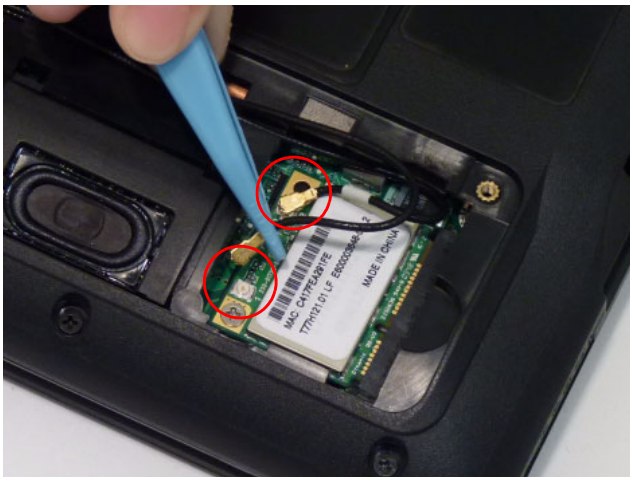
4. Connect the two (2) WLAN antennas.



NOTE: Please note that the black antenna must be connected to the **Main** connector and the white antenna must be connected to the **Auxiliary** connector.

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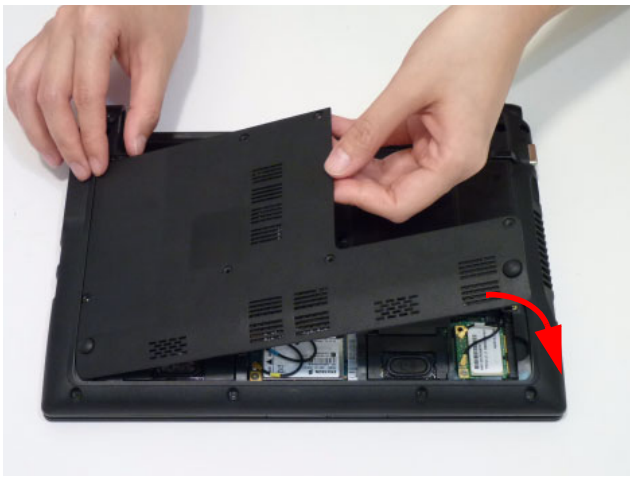
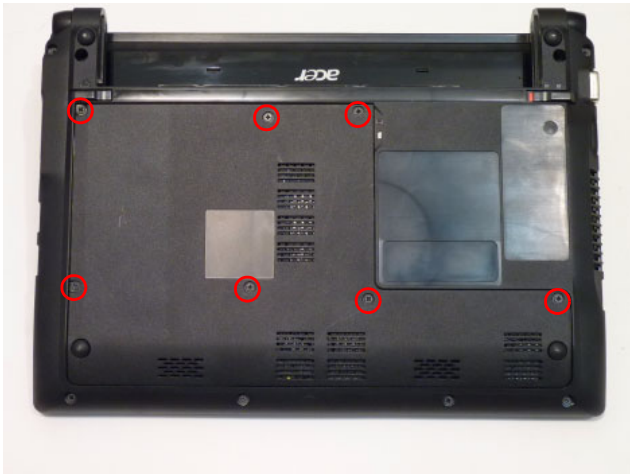
Replacing the Base Door

1. Replace the base door by first lining up the left edge as shown.



2. Replace seven (7) screws to secure the base door to the chassis.



Replace the Dummy Card

Push the dummy card into the slot until it clicks into place.

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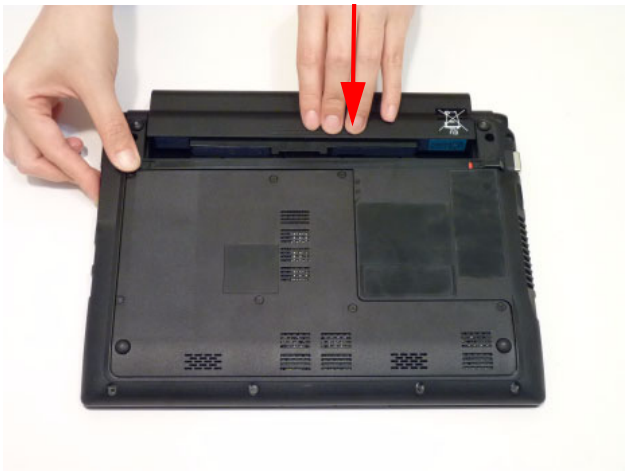
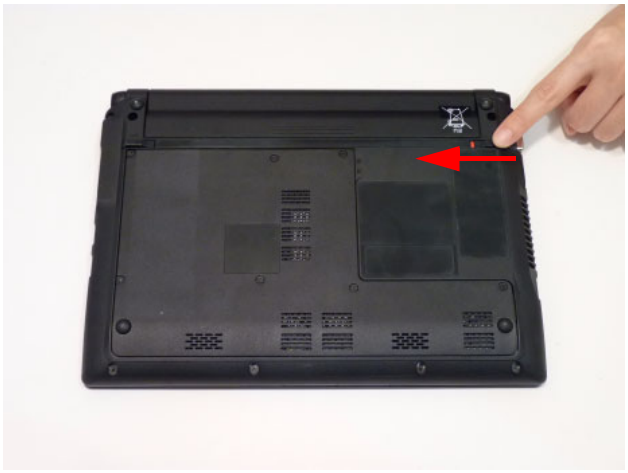
Replacing the Battery

1. Slide the battery into position.



2. Close the locking latch.



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Troubleshooting

Common Problems

Use the following procedure as a guide for computer problems.

NOTE: The diagnostic tests are intended to test only Acer products. Non-Acer products, prototype cards, or modified options can give false errors and invalid system responses.

1. Obtain the failing symptoms in as much detail as possible.
2. Verify the symptoms by attempting to re-create the failure by running the diagnostic test or by repeating the same operation.
3. Use the following table with the verified symptom to determine which page to go to.

Symptoms (Verified)	Go To
Power On Issue	Page 112
No Display Issue	Page 113
LCD Failure	Page 115
Internal Keyboard Failure	Page 116
TouchPad Failure	Page 117
Internal Speaker Failure	Page 118
Internal Microphone Failure	Page 119
Other Function Failure	Page 120

4. If the Issue is still not resolved, see “Online Support Information” on page 163.

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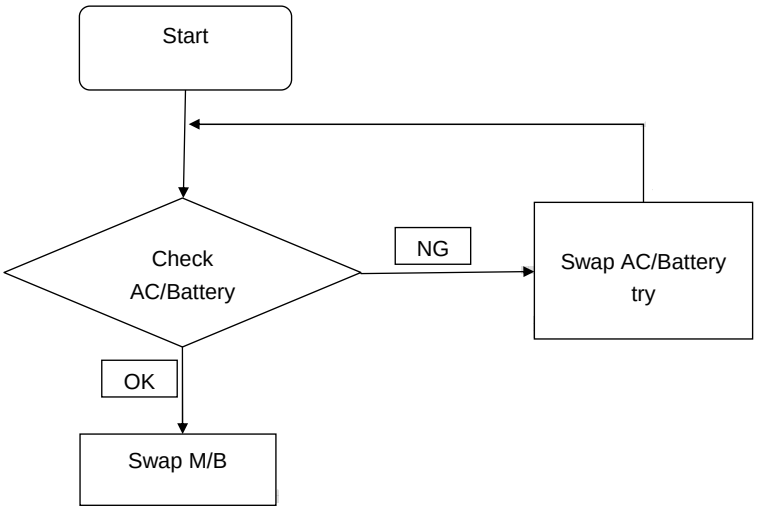
Power On Issue

If the system doesn't power on, perform the following actions one at a time to correct the problem. Do not replace non-defective FRUs:



Computer Shuts down Intermittently

If the system powers off at intervals, perform the following actions one at a time to correct the problem.

1. Check the power cable is properly connected to the computer and the electrical outlet.
2. Remove any extension cables between the computer and the outlet.
3. Remove any surge protectors between the computer and the electrical outlet. Plug the computer directly into a known good electrical outlet.
4. Remove all external and non-essential hardware connected to the computer that are not necessary to boot the computer to the failure point.
5. Remove any recently installed software.
6. If the Issue is still not resolved, see "Online Support Information" on page 163.

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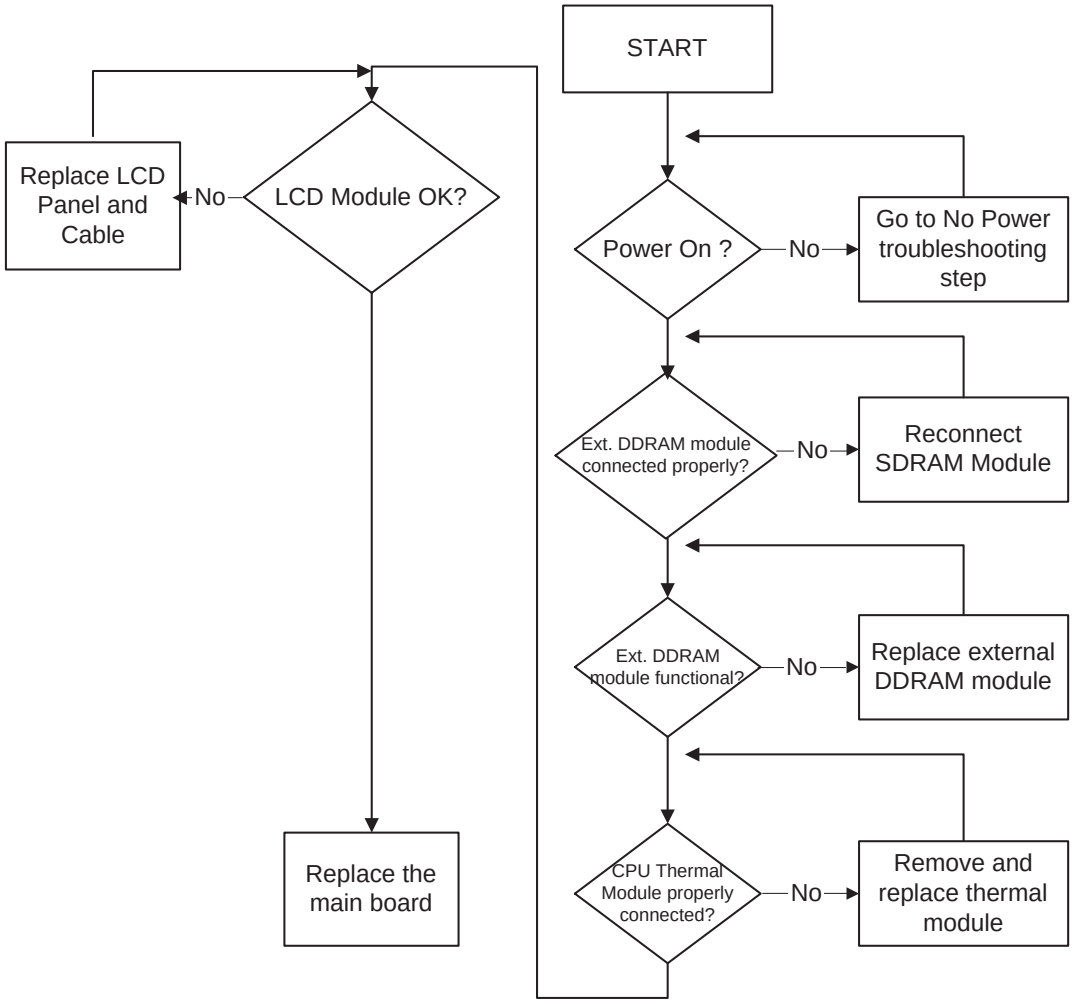
No Display Issue

If the **Display** doesn't work, perform the following actions one at a time to correct the problem. Do not replace non-defective FRUs:



No POST or Video

If the POST or video doesn't display, perform the following actions one at a time to correct the problem.

1. Make sure that the internal display is selected. On this notebook model, switching between the internal display and the external display is done by pressing **Fn+F5**. Reference Product pages for specific model procedures.
2. Make sure the computer has power by checking at least one of the following occurs:
   - Fans start up
   - Status LEDs light up

   If there is no power, see "Power On Issue" on page 112.
3. Drain any stored power by removing the power cable and battery and holding down the power button for 10 seconds. Reconnect the power and reboot the computer.
4. Connect an external monitor to the computer and switch between the internal display and the external display is by pressing **Fn+F5** (on this model).

   If the POST or video appears on the external display, see "LCD Failure" on page 115.
5. Disconnect power and all external devices including port replicators or docking stations. Remove any memory cards and CD/DVD discs. Restart the computer.

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If the computer boots correctly, add the devices one by one until the failure point is discovered.

6. Reseat the memory modules.
7. Remove the drives (see “Disassembly Process” on page 47).
8. If the Issue is still not resolved, see “Online Support Information” on page 163.

Abnormal Video Display

If video displays abnormally, perform the following actions one at a time to correct the problem.

1. Reboot the computer.
2. If permanent vertical/horizontal lines or dark spots display in the same location, the LCD is faulty and should be replaced. See “Disassembly Process” on page 47.
3. If extensive pixel damage is present (different colored spots in the same locations on the screen), the LCD is faulty and should be replaced. See “Disassembly Process” on page 47.
4. Adjust the brightness to its highest level. See the User Manual for instructions on adjusting settings.
   NOTE: Ensure that the computer is not running on battery alone as this may reduce display brightness.

   If the display is too dim at the highest brightness setting, the LCD is faulty and should be replaced. See “Disassembly Process” on page 47.
5. Check the display resolution is correctly configured:
   a. Minimize or close all Windows.
   b. If display size is only abnormal in an application, check the view settings and control/mouse wheel zoom feature in the application.
   c. If desktop display resolution is not normal, right-click on the desktop and select **Personalize→ Display Settings**.
   d. Click and drag the Resolution slider to the desired resolution.
   e. Click **Apply** and check the display. Readjust if necessary.
6. Roll back the video driver to the previous version if updated.
7. Remove and reinstall the video driver.
8. Check the Device Manager to determine that:
   - The device is properly installed. There are no red Xs or yellow exclamation marks.
   - There are no device conflicts.
   - No hardware is listed under Other Devices.
9. If the Issue is still not resolved, see “Online Support Information” on page 163.
10. Run the Windows Memory Diagnostic from the operating system DVD and follow the onscreen prompts.
11. If the Issue is still not resolved, see “Online Support Information” on page 163.

Random Loss of BIOS Settings

If the computer is experiencing intermittent loss of BIOS information, perform the following actions one at a time to correct the problem.

1. If the computer is more than one year old, replace the CMOS battery.
2. Run a complete virus scan using up-to-date software to ensure the computer is virus free.
3. If the computer is experiencing HDD or ODD BIOS information loss, disconnect and reconnect the power and data cables between devices.

   If the BIOS settings are still lost, replace the cables.
4. If HDD information is missing from the BIOS, the drive may be defective and should be replaced.
5. Replace the Motherboard.

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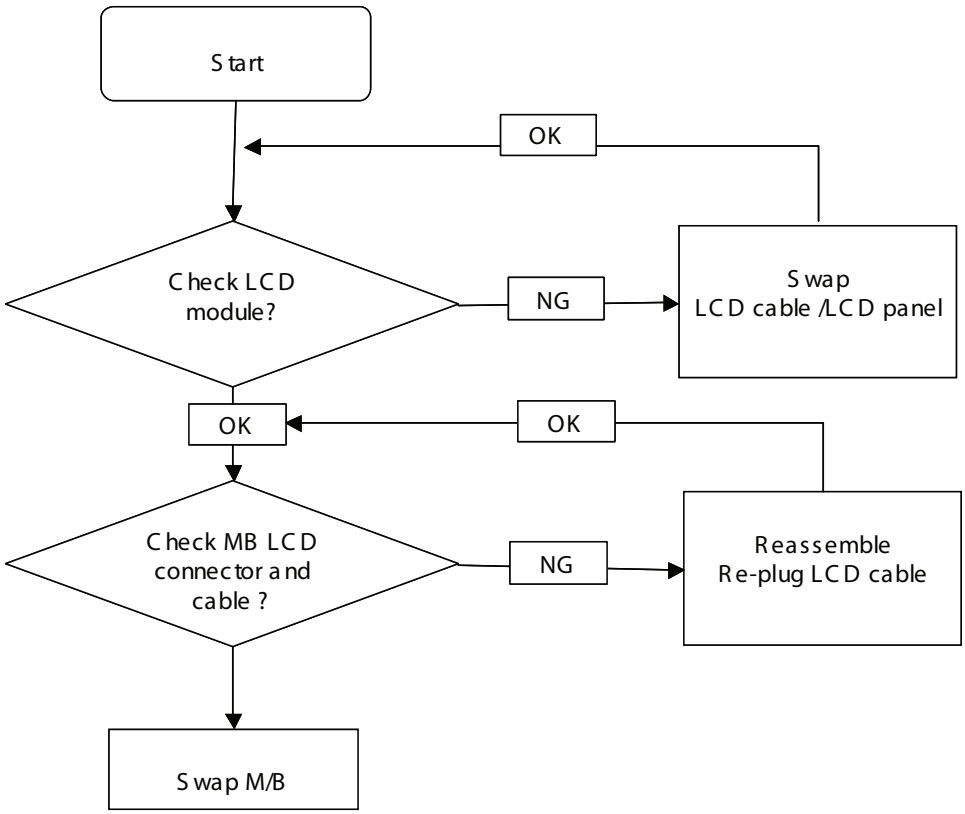
6. If the Issue is still not resolved, see “Online Support Information” on page 163.

LCD Failure

If the **LCD** fails, perform the following actions one at a time to correct the problem. Do not replace non-defective FRUs:



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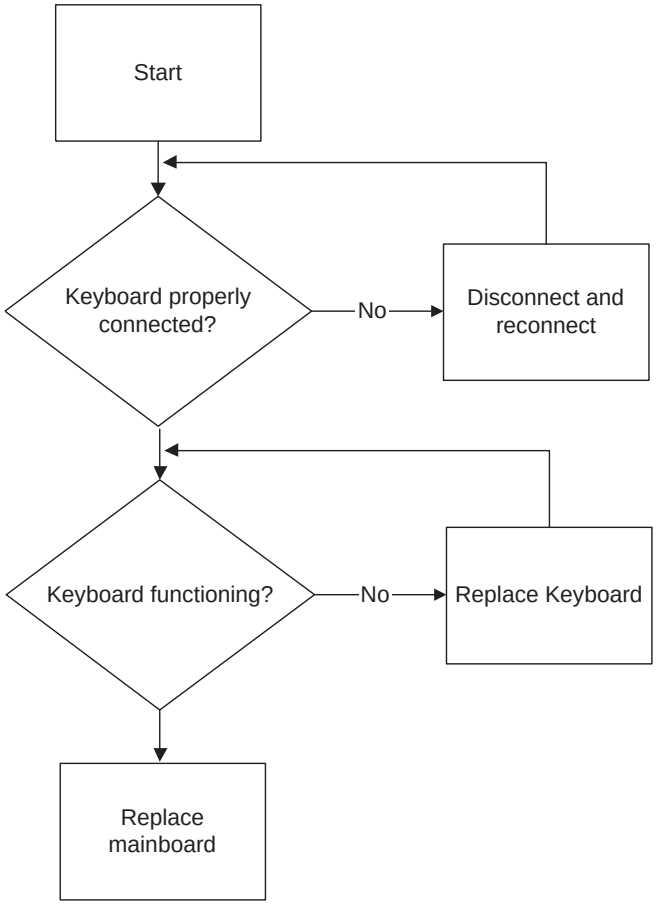
Built-In Keyboard Failure

If the built-in **Keyboard** fails, perform the following actions one at a time to correct the problem. Do not replace non-defective FRUs:



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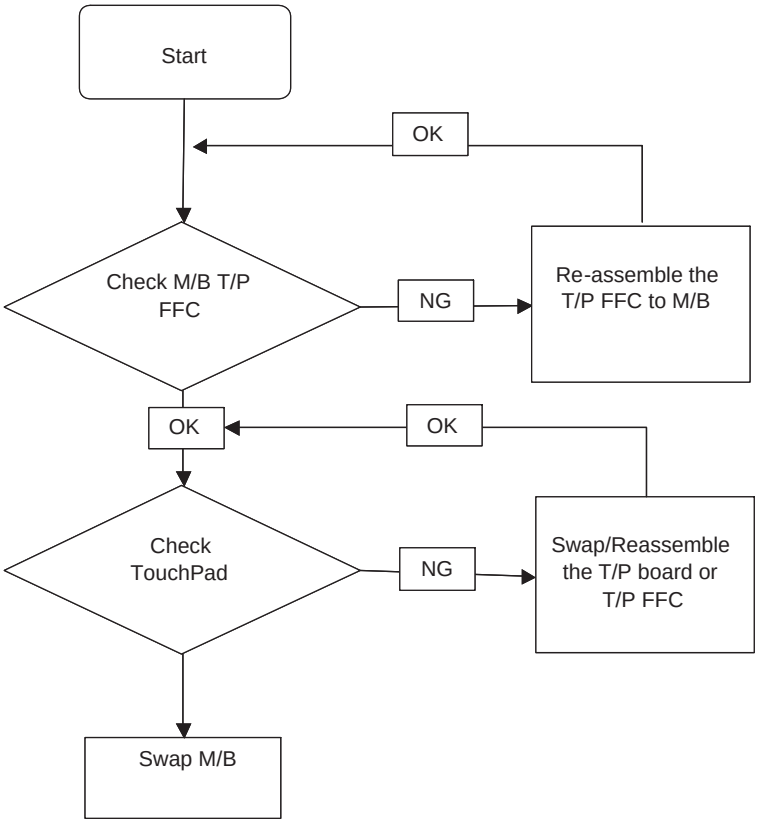
TouchPad Failure

If the **TouchPad** doesn't work, perform the following actions one at a time to correct the problem. Do not replace non-defective FRUs:



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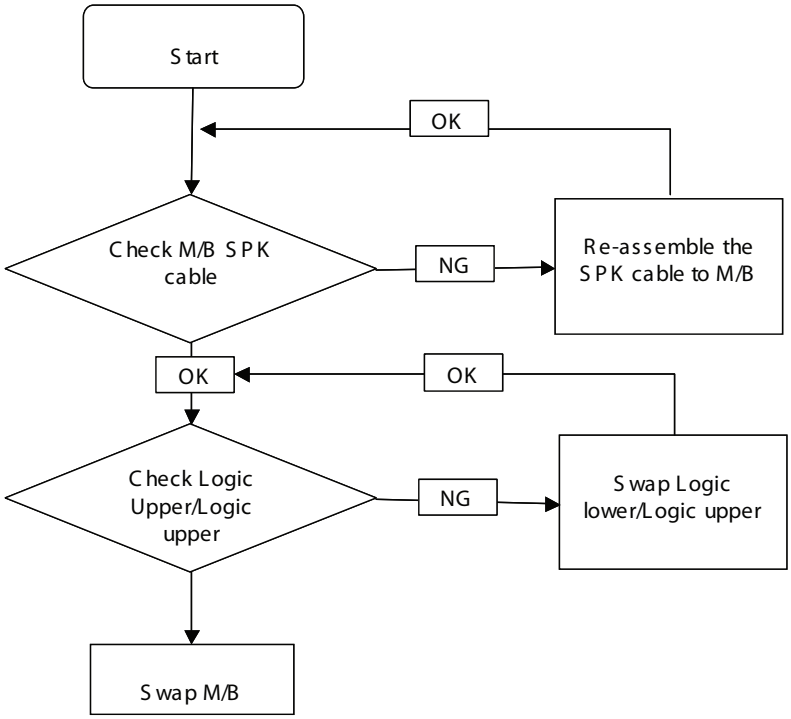
Internal Speaker Failure

If the internal **Speakers** fail, perform the following actions one at a time to correct the problem. Do not replace non-defective FRUs:



Sound Problems

If sound problems are experienced, perform the following actions one at a time to correct the problem.

1. Reboot the computer.
2. Navigate to **Start**→ **Control Panel**→ **System and Maintenance**→ **System**→ **Device Manager**. Check the Device Manager to determine that:
   - The device is properly installed.
   - There are no red Xs or yellow exclamation marks.
   - There are no device conflicts.
   - No hardware is listed under Other Devices.
3. Roll back the audio driver to the previous version, if updated recently.
4. Remove and reinstall the audio driver.
5. Ensure that all volume controls are set mid range:
   a. Click the volume icon on the taskbar and drag the slider to 50. Ensure that the volume is not muted.
   b. Click Mixer to verify that other audio applications are set to 50 and not muted.
6. Navigate to **Start**→ **Control Panel**→ **Hardware and Sound**→ **Sound**. Ensure that Speakers are selected as the default audio device (green check mark).
   NOTE: If Speakers does not show, right-click on the **Playback** tab and select **Show Disabled Devices** (clear by default).
7. Select Speakers and click **Configure** to start **Speaker Setup**. Follow the onscreen prompts to configure the speakers.
8. Remove and recently installed hardware or software.

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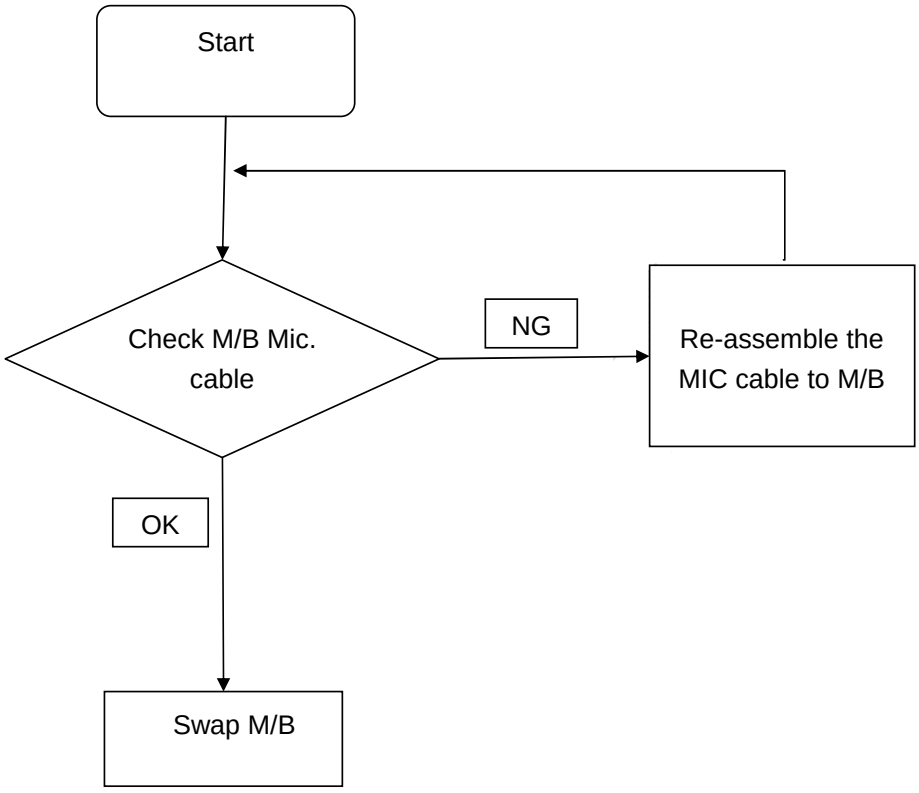
9. Restore system and file settings from a known good date using **System Restore**.

   If the issue is not fixed, repeat the preceding steps and select an earlier time and date.

10. Reinstall the Operating System.
11. If the Issue is still not resolved, see “Online Support Information” on page 163.

Internal Microphone Failure

If the internal **Microphone** fails, perform the following actions one at a time to correct the problem. Do not replace non-defective FRUs:



Microphone Problems

If internal or external **Microphones** do no operate correctly, perform the following actions one at a time to correct the problem.

1. Check that the microphone is enabled. Navigate to **Start**→ **Control Panel**→ **Hardware and Sound**→ **Sound** and select the **Recording** tab.
2. Right-click on the **Recording** tab and select **Show Disabled Devices** (clear by default).
3. The microphone appears on the **Recording** tab.
4. Right-click on the microphone and select **Enable**.
5. Select the microphone then click **Properties**. Select the **Levels** tab.
6. Increase the volume to the maximum setting and click **OK**.
7. Test the microphone hardware:
   a. Select the microphone and click **Configure**.
   b. Select **Set up microphone**.
   c. Select the microphone type from the list and click **Next**.
   d. Follow the onscreen prompts to complete the test.

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8. If the Issue is still not resolved, see “Online Support Information” on page 163.

HDD Not Operating Correctly

If the **HDD** does not operate correctly, perform the following actions one at a time to correct the problem.

1. Disconnect all external devices.
2. Run a complete virus scan using up-to-date software to ensure the computer is virus free.
3. Run the Windows 7 Startup Repair Utility:
   a. insert the Windows 7 Operating System DVD in the ODD and restart the computer.
   b. When prompted, press any key to start to the operating system DVD.
   c. The **Install Windows** screen displays. Click **Next**.
   d. Select **Repair your computer**.
   e. The **System Recovery Options** screen displays. Click **Next**.
   f. Select the appropriate operating system, and click **Next**.

   NOTE: Click **Load Drivers** if controller drives are required.

   g. Select **Startup Repair**.
   h. Startup Repair attempts to locate and resolve issues with the computer.
   i. When complete, click **Finish**.

   If an issue is discovered, follow the onscreen information to resolve the problem.
4. Run the Windows Memory Diagnostic Tool. For more information see Windows Help and Support.
5. Restart the computer and press F2 to enter the BIOS Utility. Check the BIOS settings are correct and that CD/DVD drive is set as the first boot device on the Boot menu.
6. Ensure all cables and jumpers on the HDD and ODD are set correctly.
7. Remove any recently added hardware and associated software.
8. Run the Windows Disk Defragmenter. For more information see Windows Help and Support.
9. Run Windows Check Disk by entering **chkdsk /r** from a command prompt. For more information see Windows Help and Support.
10. Restore system and file settings from a known good date using **System Restore**.

    If the issue is not fixed, repeat the preceding steps and select an earlier time and date.
11. Replace the HDD. See “Disassembly Process” on page 47.

Other Failures

If the VGA board, LAN Port, external MIC or Speakers, PCI Express Card, 5-in-1 Card Reader or Volume Wheel fail, perform the following general steps to correct the problem. Do not replace non-defective FRUs:

1. Check whether the drive is OK.
2. Verify that the Test Fixture is OK.
3. Swap the mainboard and retest.

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Intermittent Problems

Intermittent system hang problems can be caused by a variety of reasons that have nothing to do with a hardware defect, such as: cosmic radiation, electrostatic discharge, or software errors. FRU replacement should be considered only when a recurring problem exists.

When analyzing an intermittent problem, do the following:

1. Run the advanced diagnostic test for the system board in loop mode at least 10 times.
2. If no error is detected, do not replace any FRU.
3. If any error is detected, replace the FRU. Rerun the test to verify that there are no more errors.

Undetermined Problems

The diagnostic problems does not identify which adapter or device failed, which installed devices are incorrect, whether a short circuit is suspected, or whether the system is inoperative.

Follow these procedures to isolate the failing FRU (do not isolate non-defective FRU).

NOTE: Verify that all attached devices are supported by the computer.

NOTE: Verify that the power supply being used at the time of the failure is operating correctly. (See “Power On Issue” on page 112.):

1. Power-off the computer.
2. Visually check them for damage. If any problems are found, replace the FRU.
3. Remove or disconnect all of the following devices:
    - Non-Acer devices
    - Printer, mouse, and other external devices
    - Battery pack
    - Hard disk drive
    - DIMM
    - CD-ROM/Diskette drive Module
    - PC Cards
4. Power-on the computer.
5. Determine if the problem has changed.
6. If the problem does not recur, reconnect the removed devices one at a time until you find the failing FRU.
7. If the problem remains, replace the following FRU one at a time. Do not replace a non-defective FRU:
    - System board
    - LCD assembly

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POST Code Reference Tables

These tables describe the POST codes and components of the POST process.

Post Code Range

Code	POST Routine Description
02h	Verify Real Mode
03h	Disable Non-Maskable Interrupt (NMI)
04h	Get CPU type
06h	Initialize system hardware
08h	Initialize chipset with initial POST values
09h	Set IN POST flag
0Ah	Initialize CPU registers
0Bh	Enable CPU cache
0Ch	Initialize caches to initial POST values
0Eh	Initialize I/O component

Code	Beeps	POST Routine Description
0Fh		Initialize the local bus IDE
10h		Initialize Power Management
11h		Load alternate registers with initial POST values
12h		Restore CPU control word during warm boot
13h		Initialize PCI Bus Mastering devices
14h		Initialize keyboard controller
16h	1-2-2-3	BIOS ROM checksum
17h		Initialize cache before memory autosize
18h		8254 timer initialization
1Ah		8237 DMA controller initialization
1Ch		Reset Programmable Interrupt Controller
20h	1-3-1-1	Test DRAM refresh
22h	1-3-1-3	Test 8742 Keyboard Controller
24h		Set ES segment register to 4 GB
26h		Enable A20 line
28h		Autosize DRAM
29h		Initialize POST Memory Manager
2Ah		Clear 512 KB base RAM
2Ch	1-3-4-1	RAM failure on address line xxxx*
2Eh	1-3-4-3	RAM failure on data bits xxxx* of low byte of memory bus
2Fh		Enable cache before system BIOS shadow
30h	1-4-1-1	RAM failure on data bits xxxx* of high byte of memory bus
32h		Test CPU bus-clock frequency
33h		Initialize Phoenix Dispatch Manager
36h		Warm start shut down
38h		Shadow system BIOS ROM
3Ah		Autosize cache
3Ch		Advanced configuration of chipset registers

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Code	Beeps	POST Routine Description
3Dh		Load alternate registers with CMOS values
42h		Initialize interrupt vectors
45h		POST device initialization
46h	2-1-2-3	Check ROM copyright notice
48h		Check video configuration against CMOS
49h		Initialize PCI bus and devices
4Ah		Initialize all video adapters in system
4Bh		QuietBoot start (optional)
4Ch		Shadow video BIOS ROM

Code	Beeps	POST Routine Description
4Eh		Display BIOS copyright notice
50h		Display CPU type and speed
51h		Initialize EISA board
52h		Test keyboard
54h		Set key click if enabled
58h	2-2-3-1	Test for unexpected interrupts
59h		Initialize POST display service
5Ah		Display prompt "Press F2 to enter SETUP"
5Bh		Disable CPU cache
5Ch		Test RAM between 512 and 640 KB
60h		Test extended memory
62h		Test extended memory address lines
64h		Jump to UserPatch1
66h		Configure advanced cache registers
67h		Initialize Multi Processor APIC
68h		Enable external and CPU caches
69h		Setup System Management Mode (SMM) area
6Ah		Display external L2 cache size
6Bh		Load custom defaults (optional)
6Ch		Display shadow-area message
6Eh		Display possible high address for UMB recovery
70h		Display error messages
72h		Check for configuration errors
76h		Check for keyboard errors
7Ch		Set up hardware interrupt vectors
7Eh		Initialize coprocessor if present
80h		Disable onboard Super I/O ports and IRQs
81h		Late POST device initialization
82h		Detect and install external RS232 ports
83h		Configure non-MCD IDE controllers
84h		Detect and install external parallel ports
85h		Initialize PC-compatible PnP ISA devices
86h		Re-initialize onboard I/O ports.

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Code	Beeps	POST Routine Description
87h		Configure Motherboard Configurable Devices (optional)
88h		Initialize BIOS Data Area
89h		Enable Non-Maskable Interrupts (NMIs)
8Ah		Initialize Extended BIOS Data Area
8Bh		Test and initialize PS/2 mouse
8Ch		Initialize floppy controller

Code	Beeps	POST Routine Description
8Fh		Determine number of ATA drives (optional)
90h		Initialize hard-disk controllers
91h		Initialize local-bus hard-disk controllers
92h		Jump to UserPatch2
93h		Build MPTABLE for multi-processor boards
95h		Install CD ROM for boot
96h		Clear huge ES segment register
97h		Fixup Multi Processor table
98h	1-2	Search for option ROMs. One long, two short beeps on checksum failure
99h		Check for SMART Drive (optional)
9Ah		Shadow option ROMs
9Ch		Set up Power Management
9Dh		Initialize security engine (optional)
9Eh		Enable hardware interrupts
9Fh		Determine number of ATA and SCSI drives
A0h		Set time of day
A2h		Check key lock
A4h		Initialize Typematic rate
A8h		Erase F2 prompt
AAh		Scan for F2 key stroke
ACh		Enter SETUP
AEh		Clear Boot flag
B0h		Check for errors
B2h		POST done - prepare to boot operating system
B4h	1	One short beep before boot
B5h		Terminate QuietBoot (optional)
B6h		Check password (optional)
B9h		Prepare Boot
BAh		Initialize DMI parameters
BBh		Initialize PnP Option ROMs
BCh		Clear parity checkers
BDh		Display MultiBoot menu
BEh		Clear screen (optional)
BFh		Check virus and backup reminders
C0h		Try to boot with INT 19

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Code	Beeps	POST Routine Description
C1h		Initialize POST Error Manager (PEM)
C2h		Initialize error logging
C3h		Initialize error display function

Code	Beeps	POST Routine Description
C4h		Initialize system error handler
C5h		PnPnd dual CMOS (optional)
C6h		Initialize notebook docking (optional)
C7h		Initialize notebook docking late
C8h		Force check (optional)
C9h		Extended checksum (optional)
D2h		Unknown interrupt

Code	Beeps	For Boot Block in Flash ROM
E0h		Initialize the chipset
E1h		Initialize the bridge
E2h		Initialize the CPU
E3h		Initialize system timer
E4h		Initialize system I/O
E5h		Check force recovery boot
E6h		Checksum BIOS ROM
E7h		Go to BIOS
E8h		Set Huge Segment
E9h		Initialize Multi Processor
EAh		Initialize OEM special code
EBh		Initialize PIC and DMA
ECh		Initialize Memory type
EDh		Initialize Memory size
EEh		Shadow Boot Block
EFh		System memory test
F0h		Initialize interrupt vectors
F1h		Initialize Run Time Clock
F2h		Initialize video
F3h		Initialize System Management Mode
F4h	1	Output one beep before boot
F5h		Boot to Mini DOS
F6h		Clear Huge Segment
F7h		Boot to Full DOS

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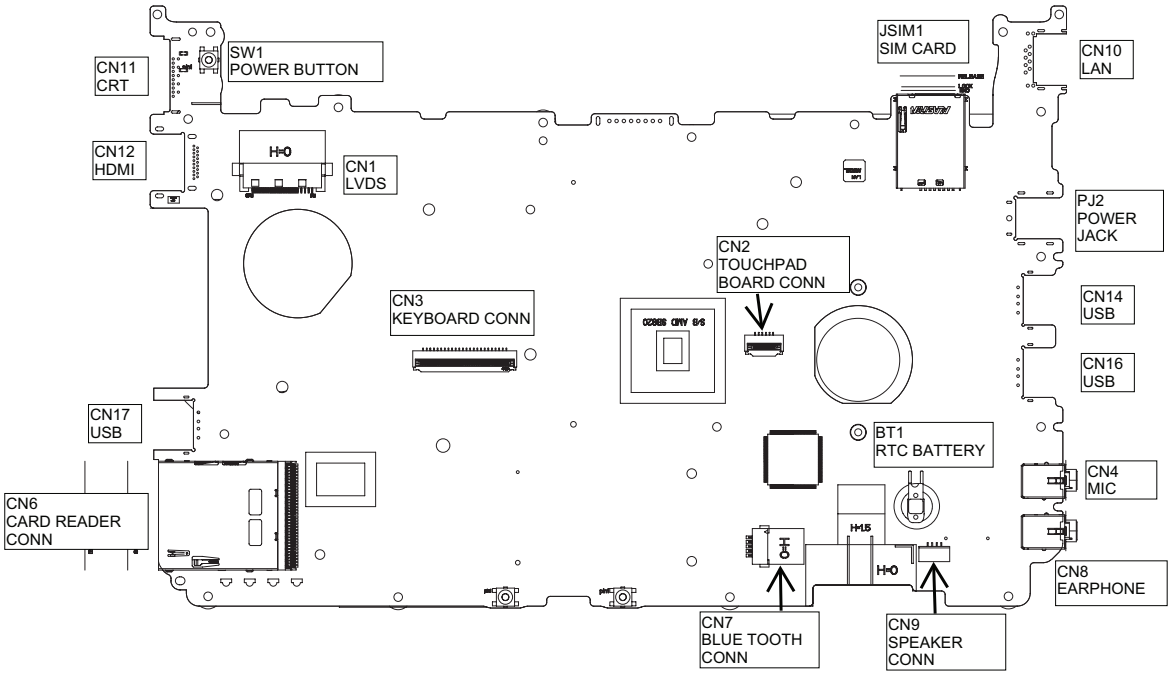
Jumper and Connector Locations

Mainboard Top View



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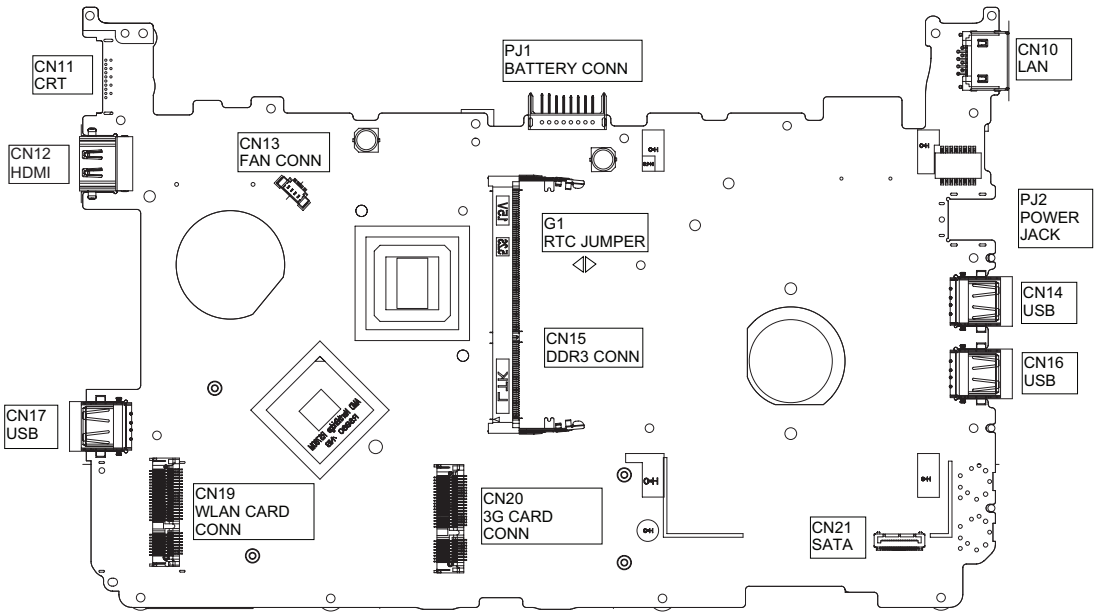
Mainboard Bottom View



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BIOS Recovery

BIOS Recovery by Crisis Disk

BIOS Recovery Boot Block

The BIOS Recovery Boot Block is a special block of BIOS. It is used to boot up the system with minimum BIOS initialization. Users can enable this feature to restore the BIOS firmware to the factory settings if a BIOS flash process fails.

BIOS Recovery Hotkey

The system provides a function hotkey: **Fn+Esc**, to enable the BIOS Recovery process when a system is powered on during BIOS POST. To use this function, it is strongly recommended to have the AC adapter and Battery present. If this function is enabled, the system will force the BIOS to enter a special BIOS block, called Boot Block.

Steps for BIOS Recovery from USB Storage

Before performing this procedure, prepare a Crisis USB key. The Crisis USB key can be made by executing the Crisis Disk program in a functioning system with a Windows 7 OS.

IMPORTANT: The Crisis Disk program will overwrite all data on any drive that you use as a crisis disk.

Follow the steps below:

1. Modify the archive name from "zh7 bios" to "ZH7X64.fd"
2. Save ROM file (file name: **ZH9X64.fd**) to the root directory of the USB storage.
3. Plug the USB storage into a USB port.
4. Press **Fn + ESC** button then plug in AC.
5. Press **Power** button to initiate system CRISIS mode.

   When CRISIS is complete, the system auto restarts with a workable BIOS.
6. Update the latest version BIOS for this machine by the regular BIOS flashing process.

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FRU (Field Replaceable Unit) List

This chapter gives you the FRU (Field Replaceable Unit) listing in global configurations of the computer. Refer to this chapter whenever ordering for parts to repair or for RMA (Return Merchandise Authorization).

Please note that WHEN ORDERING FRU PARTS, you should check the most up-to-date information available on your regional web or channel. For whatever reasons a part number change is made, it will not be noted on the printed Service Guide. For ACER AUTHORIZED SERVICE PROVIDERS, your Acer office may have a DIFFERENT part number code from those given in the FRU list of this printed Service Guide. You MUST use the local FRU list provided by your regional Acer office to order FRU parts for repair and service of customer machines.

NOTE: To scrap or to return the defective parts, you should follow the local government ordinance or regulations on how to dispose it properly, or follow the rules set by your regional Acer office on how to return it.

Exploded Diagrams

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Main Assembly

Item	Description	Part Number
1		
2		
3		
4		
5		
6		

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Item	Description	Part Number
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		

NOTE: Part numbers may be different depending on your model. Please refer to the FRU List for a full listing of part numbers.

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LCD Assembly

Item	Description	Part Number
1		
2		
3		
4		
5		
6		
7		

NOTE: Part numbers may be different depending on your model. Please refer to the FRU List for a full listing of part numbers.

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FRU List

CATEGORY	DESCRIPTION	Part No.
ADAPTER		
	Adapter DELTA 40W 19V 1.7x5.5x11 Black ADP-40 TH AA, LV5 wall-mounted, OBL LF	AP.04001.002
BATTERY		
	Battery SIMPLO UM-2009E Li-Ion 3S2P SAMSUNG 6 cell 5600mAh Main COMMON ID:UM09E70	BT.00607.102
	Battery PANASONIC UM-2009E Li-Ion 3S2P PANASONIC 6 cell 5800mAh Main COMMON ID:UM09E56	BT.00605.050
BOARD		
	Foxconn Wireless LAN Atheros HB93 1x2 BGN (HM)	NI.23600.046
	Foxconn Wireless LAN Broadcom 4312H BG (HM)	NI.23600.053
	Foxconn Wirelss LAN Atheros HB95BG (HM) T77H121.10	NI.23600.077
	Foxconn Bluetooth BRM 2046 BT2.1 (T60H928.33) f/w:861	BH.21100.004
CABLE		
	AC power Clip IU40-1-BRZ Rev 1.0	LZ.20400.307
	AC power clip IU40-1-ARG Rev 1.0	LZ.20400.308
	AC Power Clip IU40-1-CCC Rev 1.0	LZ.20400.309
	AC Power Clip IU40-1-EK Rev 1.0	LZ.20400.310
	AC Power Clip IU40-1-EU Rev 1.0	LZ.20400.311
	AC Power Clip IU40-1-SAA Rev 1.0	LZ.20400.312
	AC Power Clip IU40-1-SABS Rev 1.0	LZ.20400.313
	AC Power Clip IU40-1-UK Rev 1.0	LZ.20400.314
	AC Power Clip IU40-1-UL Rev 1.0	LZ.20400.315
	AC Power Clip IU40-1-AF Rev 1.0	LZ.20400.324
	BLUETOOTH CABLE	50.SBT07.001
CASE/COVER/BRACKET ASSEMBLY		
	UPPER CASE (W/TP, TP FFC, BLACK)	60.SBS07.001
	UPPER CASE (W/TP, TP FFC, BROWN)	60.SBT07.001

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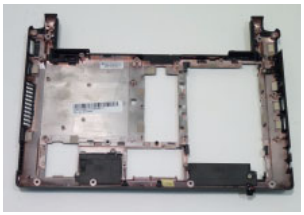
CATEGORY	DESCRIPTION	Part No.
	LOWER CASE (W/ SPK)	60.SBT07.002
	RAM DOOR	42.SBT07.001
	SD DUMMY CARD	42.SBT07.002
HDD/HARD DISK DRIVE		
	HDD WD 2.5" 5400rpm 160GB WD1600BEVT-22A23T0 , WD, ML320S SATA 8MB LF F/ W:01.01A01	KH.16008.027
	HDD HGST 2.5" 5400rpm 250GB HTS545025B9A300 Panther B SATA LF F/W:C60F Disk imbalance criteria = 0.014g-cm	KH.25007.016
	HDD SEAGATE 2.5" 5400rpm 250GB ST9250315AS Wyatt SATA LF F/W:0001SDM1	KH.25001.016
	HDD BRACKET FOR 3G - R	33.FRB07.001
	HDD CONNECTOR	20.SBT07.001
KEYBOARD		
	Keyboard ACER NT0T_A10B NT0T84KS Black US International Texture	KB.I100A.086

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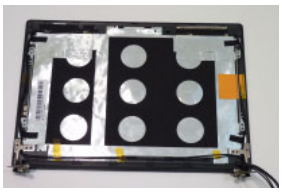
CATEGORY	DESCRIPTION	Part No.
LCD MODULE		
	LCD MODULE ASSY IMR LED(W/ANT*4, FOR 3G, NISSHA-BLACK)	6M.SBS07.001
	LCD MODULE ASSY IMR LED(W/ANT*4, FOR 3G, SIPIX-BLACK)	6M.SBS07.002
	LCD MODULE ASSY IMR LED(W/ANT*4, FOR 3G, NISSHA-BROWN)	6M.SBT07.001
	LCD MODULE ASSY IMR LED(W/ANT*2, FOR NON-3G, SIPIX-BLACK)	6M.SBS07.003
	LCD MODULE ASSY IMR LED(W/ANT*2, FOR NON-3G, NISSHA-BLACK)	6M.SBS07.004
	LCD MODULE ASSY IMR LED(W/ANT*2, FOR NON-3G, NISSHA-BROWN)	6M.SBT07.002
	LED LCD AUO 10.1" WSVGA Glare B101AW06 V1 LF 200nit 8ms 500:1	LK.10105.002
	LED LCD CMO 10.1" WSVGA Glare N101L6-L0D LF 200nit 10ms 500:1	LK.1010D.004
	LCD COVER W/ BRACKET,HINGE, FOR 3G (NISSHA-BLACK)	60.SBS07.002
	LCD COVER W/ BRACKET,HINGE, FOR 3G (SIPIX-BLACK)	60.SBS07.003
	LCD COVER W/ BRACKET,HINGE, FOR 3G (NISSHA-BROWN)	60.SBT07.004
	LCD COVER W/ BRACKET,HINGE, FOR NON-3G (SIPIX-BLACK)	60.SBS07.004
	LCD COVER W/ BRACKET,HINGE, FOR NON-3G (NISSHA-BLACK)	60.SBS07.005
	LCD COVER W/ BRACKET,HINGE, FOR NON-3G (NISSHA-BROWN)	60.SBT07.005
	LCD BEZEL	60.SBT07.003
	LCD CABLE WITH MIC	50.SBT07.002
	LCD MYLAR FOR 3G	47.SBT07.001

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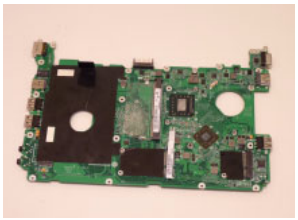
CATEGORY	DESCRIPTION	Part No.
	Suyin 1.3M SY9665SN	AM.21400.068
MAINBOARD		
	MAIN BOARD UMA AMD V105 1.2G,W/ CARD READER/BT/3G	MB.SBV06.001
	MAIN BOARD UMA AMD V105 1.2G,W/ CARD READER/BT, NON-3G	MB.SBT06.001
		TBD
		TBD
	MAIN BOARD UMA AMD K125 1.7G,WITH CARD READER/BT/3G	MB.SBV06.003
MEMORY		
	Memory ELPIDA SO-DIMM DDRIII 1333 1GB EBJ10UE8BDS0-DJ-F LF 128*8 0.065um	KN.1GB09.015
HEATSINK		
	THERMAL MODULE - UMA	60.SBT07.006
SPEAKER		
	SPEAKER SET (W/ L&R)	23.SBT07.001
MISCELLANEOUS		
	RUBBER FOOT IN RAM DOOR	47.SBT07.002
	RUBBER FOOT IN LOWER CASE	47.SBT07.003
	LCD BEZEL RUBBER	47.SBT07.004
	LCD BEZEL RUBBER -2	47.SBT07.005
	ZH9 BEZEL SCREW RUBBER	47.SBT07.006

Screw List

CATEGORY	DESCRIPTION	Part No.
SCREW		
	SCREW M2.0*2.5-I(NI)(NYLOK) KIT	86.TADV7.001
	SCREW M2*5-I(BZN)(NYLOK)IRON	86.SBS07.001
	SCREW M2.0*7.5-I(BZN)(NYLOK)IRON	86.SBS07.002
	SCREW M2.0*3.0-I-NI-NYLOK IRON	86.S8507.001
	SCREW M2.0*4-I(BNI)(NYLOK)	86.FR4V7.002
	SCREW M3*0.5+3.5I IRON	86.SBS07.003

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Appendix A

Model Definition and Configuration

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AO521

Model	Acer Part No	RO	Country	Description
AO521-105Dc	LU.SBT0D.017	AAP	Singapore	AO521-105Dc SNW7ST32STSG1 MC UMACcc_3 1*1G/250/BT/6L2.2/5R/ CBSDS_GN_1.3C_BAG_GEc_ZH31
AO521-105Dc	LU.SBT0D.016	AAP	Singapore	AO521-105Dc SNW7ST32STSG1 MC UMACcc_3 1*1G/160/BT/6L2.2/5R/ CBSDS_GN_1.3C_BAG_GEc_ZH31
AO521-12BDc	LU.SBT0D.015	AAP	Singapore	AO521-12BDc SNW7ST32STSG1 MC UMACcc_3 1*1G/160/BT/6L2.2/5R/ CBSDS_GN_1.3C_BAG_GEc_ZH31
AO521-12BDc	LU.SBT0D.014	AAP	Singapore	AO521-12BDc SNW7ST32STSG1 MC UMACcc_3 1*1G/250/BT/6L2.2/5R/ CBSDS_GN_1.3C_BAG_GEc_ZH31
AO521-1051c	LU.SBT01.002	CHINA	China	AO521-1051c W7HB32SCSTCN1 MC UMACcc_3 1*2G/250/6L2.2/5R/ CBSDS_GN_1.3C_BAG_GEc_SC11
AO521-1051c	LU.SBT01.001	CHINA	China	AO521-1051c W7HB32SCSTCN1 MC UMACcc_3 1*2G/160/6L2.2/5R/ CBSDS_GN_1.3C_BAG_GEc_SC11
AO521-12BDc	LU.SBT0D.003	PA	USA	AO521-12BDc SNW7ST32STUS1 MC UMACcc_3 1*1G/160/6L2.2/5R/ CBSDS_GN_1.3C_GEc_FRB1
AO521-105Dc	S2.SBT0D.004	WW	WW	AO521-105Dc SNW7ST32SWW1 MC UMACcc_3 1*1G/250/BT/6L2.2/5R/ CBSDS_GN_1.3C_GEc_ES61
AO521-12BDc	LU.SBT0D.013	PA	USA	AO521-12BDc SNW7ST32STUS1 MC UMACcc_3 1*1G/250/6L2.2/5R/ CBSDS_GN_1.3C_GEc_FRB1
AO521-12BDc	LU.SBT0D.012	EMEA	Russia	AO521-12BDc SNW7ST32RUSTRU1 MC UMACcc_3 1*1G/250/BT/6L2.8/5R/ CBSDS_bg_1.3C_GEc_RU61
AO521-105Dc	LU.SBT0D.011	EMEA	Russia	AO521-105Dc SNW7ST32RUSTRU1 MC UMACcc_3 1*1G/160/6L2.2/5R/ CBSDS_bg_1.3C_GEc_RU61
AO521-12BDc	LU.SBT0D.010	EMEA	Russia	AO521-12BDc SNW7ST32RUSTRU1 MC UMACcc_3 1*1G/160/6L2.2/5R/ CBSDS_bg_1.3C_GEc_RU61
AO521-105Dc	LU.SBT0D.009	PA	ACLA-Spanish	AO521-105Dc EM SNW7ST32EMSTEA1 MC UMACcc_3 1*1G/160/6L2.2/5R/ CBSDS_GN_1.3C_GEc_ES51
AO521-105Dc	LU.SBT0D.008	PA	ACLA-Portuguese	AO521-105Dc EM SNW7ST32EMSTXC3 MC UMACcc_3 1*1G/160/6L2.2/5R/ CBSDS_GN_1.3C_GEc_EN61
AO521-105Dc	LU.SBT0D.007	PA	Chile	AO521-105Dc EM SNW7ST32EMSTCL3 MC UMACcc_3 1*1G/160/6L2.2/5R/ CBSDS_GN_1.3C_GEc_ES51
AO521-105Dc	LU.SBT0D.006	PA	ACLA-Spanish	AO521-105Dc EM SNW7ST32EMSTEA4 MC UMACcc_3 1*1G/160/6L2.2/5R/ CBSDS_GN_1.3C_GEc_EN31
AO521-105Dc	LU.SBT0D.005	PA	ACLA-Spanish	AO521-105Dc EM SNW7ST32EMSTEA3 MC UMACcc_3 1*1G/160/6L2.2/5R/ CBSDS_GN_1.3C_GEc_ES51

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Model	Acer Part No	RO	Country	Description
AO521-12BDc	LU.SBT0D.004	AAP	Philippines	AO521-12BDc EM SNW7ST32EMSTPH1 MC UMACcc_3 1*1G/250/BT/6L2.2/5R/ CBSDS_GN_1.3C_BAG_GEc_ES61
AO521-12BDc	LU.SBT0D.002	TWN	GCTWN	AO521-12BDc SNW7ST32STTW1 MC UMACcc_3 1*1G/160/BT/6L2.2/5R/ CBSDS_GN_1.3C_BAG_GEc_TC11
AO521-105Dc	LU.SBT0D.001	TWN	GCTWN	AO521-105Dc SNW7ST32STTW1 MC UMACcc_3 1*1G/160/BT/6L2.2/5R/ CBSDS_GN_1.3C_BAG_GEc_TC11
AO521-105Hc	LU.SBT0H.001	CHINA	China	AO521-105Hc SNW7HB32SCSTCN1 MC UMACcc_3 1*1G/160/6L2.2/5R/ CBSDS_GN_1.3C_BAG_GEc_SC11
AO521-105Dc	S2.SBT0D.003	WW	GCTWN	AO521-105Dc SNW7ST32SWW1 MC UMACcc_3 1*1G/250/BT/6L2.2/5R/ CBSDS_GN_1.3C_GEc_ES62
AO521-105Dc	S2.SBT0D.002	WW	WW	AO521-105Dc SNW7ST32SWW1 MC UMACcc_3 1*1G/160/6L2.2/5R/ CBSDS_GN_1.3C_GEc_ES61
AO521-105Dc	S2.SBT0D.001	WW	GCTWN	AO521-105Dc SNW7ST32SWW1 MC UMACcc_3 1*1G/160/6L2.2/5R/ CBSDS_GN_1.3C_GEc_ES62
AO521-105Dk	LU.SBS0D.065	AAP	Singapore	AO521-105Dk SNW7ST32STSG1 MC UMACki_3 1*1G/250/BT/6L2.2/5R/ CBSDS_GN_1.3C_BAG_GEk_ZH31
AO521-105Dk	LU.SBS0D.064	AAP	Singapore	AO521-105Dk SNW7ST32STSG1 MC UMACki_3 1*1G/160/BT/6L2.2/5R/ CBSDS_GN_1.3C_BAG_GEk_ZH31
AO521-12BDk	LU.SBS0D.063	AAP	Singapore	AO521-12BDk SNW7ST32STSG1 MC UMACki_3 1*1G/160/BT/6L2.2/5R/ CBSDS_GN_1.3C_BAG_GEk_ZH31
AO521-12BDk	LU.SBS0D.062	AAP	Singapore	AO521-12BDk SNW7ST32STSG1 MC UMACki_3 1*1G/250/BT/6L2.2/5R/ CBSDS_GN_1.3C_BAG_GEk_ZH31
AO521-105Dk	S2.SBS0D.004	WW	WW	AO521-105Dk SNW7ST32SWW1 MC UMACki_3 1*1G/250/BT/6L2.2/5R/ CBSDS_GN_1.3C_GEk_ES61
AO521-12BDk	LU.SBS0D.061	PA	USA	AO521-12BDk SNW7ST32STUS1 MC UMACki_3 1*1G/160/6L2.2/5R/ CBSDS_GN_1.3C_GEk_FRB1
AO521-12BDk	LU.SBS0D.060	PA	USA	AO521-12BDk SNW7ST32STUS1 MC UMACki_3 1*1G/250/6L2.2/5R/ CBSDS_GN_1.3C_GEk_FRB1
AO521-105Dk	LU.SBS0D.059	PA	Chile	AO521-105Dk EM SNW7ST32EMSTCL3 MC UMACki_3 1*1G/160/6L2.2/5R/ CBSDS_GN_1.3C_GEk_ES51
AO521-105Dk	LU.SBS0D.058	PA	ACLA-Spanish	AO521-105Dk EM SNW7ST32EMSTEA4 MC UMACki_3 1*1G/160/6L2.2/5R/ CBSDS_GN_1.3C_GEk_EN31
AO521-105Dk	LU.SBS0D.057	PA	ACLA-Spanish	AO521-105Dk EM SNW7ST32EMSTEA3 MC UMACki_3 1*1G/160/6L2.2/5R/ CBSDS_GN_1.3C_GEk_ES51

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Model	Acer Part No	RO	Country	Description
AO521-105Dk	LU.SBS0D.056	PA	ACLA-Spanish	AO521-105Dk EM SNW7ST32EMSTEA1 MC UMACki_3 1*1G/160/6L2.2/5R/ CBSDS_GN_1.3C_GEk_ES51
AO521-105Dk	LU.SBS0D.055	PA	ACLA-Portuguese	AO521-105Dk EM SNW7ST32EMSTXC3 MC UMACki_3 1*1G/160/6L2.2/5R/ CBSDS_GN_1.3C_GEk_EN61
AO521-105Dk	LU.SBS0D.054	EMEA	Russia	AO521-105Dk SNW7ST32RUSTRU1 MC UMACki_3 1*1G/160/6L2.2/5R/ CBSDS_bg_1.3C_GEk_RU61
AO521-12BHk	LU.SBS0H.002	CHINA	China	AO521-12BHk SNW7HB32SCSTCN1 MC UMACki_3 1*1G/250/6L2.2/5R/ CBSDS_GN_1.3C_BAG_GEk_SC11
AO521-12BDk	LU.SBS0D.053	AAP	Philippines	AO521-12BDk EM SNW7ST32EMSTPH1 MC UMACki_3 1*1G/250/BT/6L2.2/5R/ CBSDS_GN_1.3C_BAG_GEk_ES61
AO521-105Hk	LU.SBS0H.001	CHINA	China	AO521-105Hk SNW7HB32SCSTCN1 MC UMACki_3 1*1G/250/6L2.2/5R/ CBSDS_GN_1.3C_BAG_GEk_SC11
AO521-105Dk	LU.SBS0D.052	EMEA	Poland	AO521-105Dk SNW7ST32STPL1 MC UMACki_3 1*1G/250/6L2.2/5R/ CBSDS_GN_1.3C_GEk_PL11
AO521-105Dk	LU.SBS0D.051	EMEA	Israel	AO521-105Dk SNW7ST32STIL1 MC UMACki_3 1*1G/250/6L2.2/5R/ CBSDS_GN_1.3C_GEk_HE11
AO521-105Dk	LU.SBS0D.050	EMEA	Greece	AO521-105Dk SNW7ST32STGR1 MC UMACki_3 1*1G/250/6L2.2/5R/ CBSDS_GN_1.3C_GEk_EL31
AO521-105Dk	LU.SBS0D.049	EMEA	Baltic	AO521-105Dk SNW7ST32STBC4 MC UMACki_3 1*1G/250/6L2.2/5R/ CBSDS_GN_1.3C_GEk_LT11
AO521-105Dk	LU.SBS0D.048	EMEA	Portugal	AO521-105Dk SNW7ST32STPT1 MC UMACki_3 1*1G/250/6L2.2/5R/ CBSDS_GN_1.3C_GEk_PT11
AO521-105Dk	LU.SBS0D.047	EMEA	Luxembourg	AO521-105Dk SNW7ST32STLU3 MC UMACki_3 1*1G/250/6L2.2/5R/ CBSDS_GN_1.3C_GEk_IT41
AO521-105Dk	LU.SBS0D.046	EMEA	Eastern Europe	AO521-105Dk SNW7ST32STEU4 MC UMACki_3 1*1G/250/6L2.2/5R/ CBSDS_GN_1.3C_GEk_SV21
AO521-105Dk	LU.SBS0D.045	EMEA	Holland	AO521-105Dk SNW7ST32STNL1 MC UMACki_3 1*1G/250/6L2.2/5R/ CBSDS_GN_1.3C_GEk_NL11
AO521-105Dk	LU.SBS0D.044	EMEA	Finland	AO521-105Dk SNW7ST32STFI2 MC UMACki_3 1*1G/250/6L2.2/5R/ CBSDS_GN_1.3C_GEk_FI11
AO521-105Dk	LU.SBS0D.043	EMEA	Denmark	AO521-105Dk SNW7ST32STDK2 MC UMACki_3 1*1G/250/6L2.2/5R/ CBSDS_GN_1.3C_GEk_ENS1
AO521-105Dk	LU.SBS0D.042	EMEA	Austria	AO521-105Dk SNW7ST32STAT1 MC UMACki_3 1*1G/250/6L2.2/5R/ CBSDS_GN_1.3C_GEk_DE61

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Model	Acer Part No	RO	Country	Description
AO521-105Dk	LU.SBS0D.041	EMEA	Germany	AO521-105Dk SNW7ST32STDE1 MC UMACki_3 1*1G/250/6L2.2/5R/ CBSDS_GN_1.3C_GEk_DE13
AO521-105Dk	LU.SBS0D.040	EMEA	Eastern Europe	AO521-105Dk SNW7ST32STEU5 MC UMACki_3 1*1G/250/6L2.2/5R/ CBSDS_GN_1.3C_GEk_RO11
AO521-105Dk	LU.SBS0D.039	EMEA	Eastern Europe	AO521-105Dk SNW7ST32STEU7 MC UMACki_3 1*1G/250/6L2.2/5R/ CBSDS_GN_1.3C_GEk_ENQ1
AO521-105Dk	LU.SBS0D.038	EMEA	Latvia	AO521-105Dk SNW7ST32STLV1 MC UMACki_3 1*1G/250/6L2.2/5R/ CBSDS_GN_1.3C_GEk_LT11
AO521-105Dk	LU.SBS0D.037	EMEA	Italy	AO521-105Dk SNW7ST32STIT1 MC UMACki_3 1*1G/250/6L2.2/5R/ CBSDS_GN_1.3C_GEk_IT11
AO521-105Dk	LU.SBS0D.036	EMEA	Latvia	AO521-105Dk SNW7ST32STLV1 MC UMACki_3 1*1G/250/6L2.2/5R/ CBSDS_GN_1.3C_GEk_RU21
AO521-105Dk	LU.SBS0D.035	EMEA	Germany	AO521-105Dk SNW7ST32STDE1 MC UMACki_3 1*1G/250/6L2.2/5R/ CBSDS_GN_1.3C_GEk_DE11
AO521-105Dk	LU.SBS0D.034	EMEA	France	AO521-105Dk SNW7ST32STFR1 MC UMACki_3 1*1G/250/6L2.2/5R/ CBSDS_GN_1.3C_GEk_FR21
AO521-105Dk	LU.SBS0D.033	EMEA	Baltic	AO521-105Dk SNW7ST32STBC5 MC UMACki_3 1*1G/250/6L2.2/5R/ CBSDS_GN_1.3C_GEk_LT11
AO521-105Dk	LU.SBS0D.032	EMEA	Austria	AO521-105Dk SNW7ST32STAT1 MC UMACki_3 1*1G/250/6L2.2/5R/ CBSDS_GN_1.3C_GEk_DE62
AO521-105Dk	LU.SBS0D.031	EMEA	Eastern Europe	AO521-105Dk SNW7ST32STEU5 MC UMACki_3 1*1G/250/6L2.2/5R/ CBSDS_GN_1.3C_GEk_PL71
AO521-105Dk	LU.SBS0D.030	EMEA	Eastern Europe	AO521-105Dk SNW7ST32STEU7 MC UMACki_3 1*1G/250/6L2.2/5R/ CBSDS_GN_1.3C_GEk_SL11
AO521-105Dk	LU.SBS0D.029	EMEA	UK	AO521-105Dk SNW7ST32STGB1 MC UMACki_3 1*1G/250/6L2.2/5R/ CBSDS_GN_1.3C_GEk_EN11
AO521-105Dk	LU.SBS0D.028	EMEA	Switzerland	AO521-105Dk SNW7ST32STCH1 MC UMACki_3 1*1G/250/6L2.2/5R/ CBSDS_GN_1.3C_GEk_IT41
AO521-105Dk	LU.SBS0D.027	EMEA	Sweden	AO521-105Dk SNW7ST32STSE1 MC UMACki_3 1*1G/250/6L2.2/5R/ CBSDS_GN_1.3C_GEk_FI11
AO521-105Dk	LU.SBS0D.026	EMEA	Spain	AO521-105Dk SNW7ST32STES1 MC UMACki_3 1*1G/250/6L2.2/5R/ CBSDS_GN_1.3C_GEk_ES51
AO521-105Dk	LU.SBS0D.025	EMEA	Norway	AO521-105Dk SNW7ST32STNO1 MC UMACki_3 1*1G/250/6L2.2/5R/ CBSDS_GN_1.3C_GEk_NO11

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Model	Acer Part No	RO	Country	Description
AO521-105Dk	LU.SBS0D.024	EMEA	Hungary	AO521-105Dk SNW7ST32STHU1 MC UMACki_3 1*1G/250/6L2.2/5R/ CBSDS_GN_1.3C_GEk_HU11
AO521-105Dk	LU.SBS0D.023	EMEA	Denmark	AO521-105Dk SNW7ST32STDK1 MC UMACki_3 1*1G/250/6L2.2/5R/ CBSDS_GN_1.3C_GEk_NO11
AO521-105Dk	LU.SBS0D.022	EMEA	Baltic	AO521-105Dk SNW7ST32STBC3 MC UMACki_3 1*1G/250/6L2.2/5R/ CBSDS_GN_1.3C_GEk_SV21
AO521-105Dk	LU.SBS0D.021	EMEA	Czech	AO521-105Dk SNW7ST32STCZ2 MC UMACki_3 1*1G/250/6L2.2/5R/ CBSDS_GN_1.3C_GEk_SK11
AO521-105Dk	LU.SBS0D.020	EMEA	Cyprus	AO521-105Dk SNW7ST32STCY1 MC UMACki_3 1*1G/250/6L2.2/5R/ CBSDS_GN_1.3C_GEk_ES61
AO521-105Dk	LU.SBS0D.019	EMEA	Belgium	AO521-105Dk SNW7ST32STBE1 MC UMACki_3 1*1G/250/6L2.2/5R/ CBSDS_GN_1.3C_GEk_NL11
AO521-105Dk	LU.SBS0D.018	EMEA	South Africa	AO521-105Dk EM SNW7ST32EMSTZA2 MC UMACki_3 1*1G/250/6L2.2/5R/ CBSDS_GN_1.3C_GEk_ES61
AO521-105Dk	LU.SBS0D.017	EMEA	Middle East	AO521-105Dk EM SNW7ST32EMSTMEB MC UMACki_3 1*1G/250/6L2.2/5R/ CBSDS_GN_1.3C_GEk_ARA1
AO521-105Dk	LU.SBS0D.016	EMEA	Middle East	AO521-105Dk EM SNW7ST32EMSTME2 MC UMACki_3 1*1G/250/6L2.2/5R/ CBSDS_GN_1.3C_GEk_AR21
AO521-105Dk	LU.SBS0D.015	EMEA	Middle East	AO521-105Dk EM SNW7ST32EMSTME6 MC UMACki_3 1*1G/250/6L2.2/5R/ CBSDS_GN_1.3C_GEk_ES61
AO521-105Dk	LU.SBS0D.014	EMEA	South Africa	AO521-105Dk EM SNW7ST32EMSTZA6 MC UMACki_3 1*1G/250/6L2.2/5R/ CBSDS_GN_1.3C_GEk_PT11
AO521-105Dk	LU.SBS0D.013	EMEA	Middle East	AO521-105Dk EM SNW7ST32EMSTME3 MC UMACki_3 1*1G/250/6L2.2/5R/ CBSDS_GN_1.3C_GEk_ES81
AO521-105Dk	LU.SBS0D.012	EMEA	South Africa	AO521-105Dk EM SNW7ST32EMSTZA5 MC UMACki_3 1*1G/250/6L2.2/5R/ CBSDS_GN_1.3C_GEk_ES61
AO521-105Dk	LU.SBS0D.011	EMEA	Middle East	AO521-105Dk EM SNW7ST32EMSTME4 MC UMACki_3 1*1G/250/6L2.2/5R/ CBSDS_GN_1.3C_GEk_ES61
AO521-105Dk	LU.SBS0D.010	EMEA	Middle East	AO521-105Dk EM SNW7ST32EMSTME2 MC UMACki_3 1*1G/250/6L2.2/5R/ CBSDS_GN_1.3C_GEk_ES61
AO521-105Dk	LU.SBS0D.009	EMEA	Algeria	AO521-105Dk EM SNW7ST32EMSTDZ1 MC UMACki_3 1*1G/250/6L2.2/5R/ CBSDS_GN_1.3C_GEk_ES81
AO521-105Dk	LU.SBS0D.008	EMEA	Middle East	AO521-105Dk EM SNW7ST32EMSTME9 MC UMACki_3 1*1G/250/6L2.2/5R/ CBSDS_GN_1.3C_GEk_ES81

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Model	Acer Part No	RO	Country	Description
AO521-105Dk	LU.SBS0D.007	EMEA	Middle East	AO521-105Dk EM SNW7ST32EMSTME2 MC UMACki_3 1*1G/250/6L2.2/5R/ CBSDS_GN_1.3C_GEk_AR11
AO521-105Dk	LU.SBS0D.006	EMEA	South Africa	AO521-105Dk EM SNW7ST32EMSTZA1 MC UMACki_3 1*1G/250/6L2.2/5R/ CBSDS_GN_1.3C_GEk_ES81
AO521-105Dk	LU.SBS0D.005	EMEA	Turkey	AO521-105Dk EM SNW7ST32EMSTTR1 MC UMACki_3 1*1G/250/6L2.2/5R/ CBSDS_GN_1.3C_GEk_TR31
AO521-105Dk	LU.SBS0D.004	EMEA	Serbia/ Macedonia	AO521-105Dk SNW7ST32ERSTCS1 MC UMACki_3 1*1G/250/6L2.2/5R/ CBSDS_GN_1.3C_GEk_SL11
AO521-105Dk	LU.SBS0D.003	EMEA	Ukraine	AO521-105Dk SNW7ST32RUSTUK1 MC UMACki_3 1*1G/250/6L2.2/5R/ CBSDS_GN_1.3C_GEk_RU61
AO521-105Dk	LU.SBS0D.001	EMEA	Russia	AO521-105Dk SNW7ST32RUSTRU1 MC UMACki_3 1*1G/250/6L2.2/5R/ CBSDS_bg_1.3C_GEk_RU61
AO521-105Dk	S2.SBS0D.003	WW	GCTWN	AO521-105Dk SNW7ST32SWW1 MC UMACki_3 1*1G/250/BT/6L2.2/5R/ CBSDS_GN_1.3C_GEk_ES62
AO521-105Dk	S2.SBS0D.001	WW	GCTWN	AO521-105Dk SNW7ST32SWW1 MC UMACki_3 1*1G/160/6L2.2/5R/ CBSDS_GN_1.3C_GEk_ES62
AO521-105Dk	S2.SBS0D.002	WW	WW	AO521-105Dk SNW7ST32SWW1 MC UMACki_3 1*1G/160/6L2.2/5R/ CBSDS_GN_1.3C_GEk_ES61
AO521-105DGc	S2.SBV0D.006	WW	WW	AO521-105DGc SNW7ST32SWW1 MC UMAGCcc_3 1*1G/160/BT/6L2.8/5R/ CBSDS_GN_1.3C_F33-900_GEc_ES61
AO521-105DGc	S2.SBV0D.005	WW	GCTWN	AO521-105DGc SNW7ST32SWW1 MC UMAGCcc_3 1*1G/160/BT/6L2.8/5R/ CBSDS_GN_1.3C_F33-900_GEc_ES62
AO521-105DGc	S2.SBV0D.004	WW	WW	AO521-105DGc SNW7ST32SWW1 MC UMAGCcc_3 1*1G/160/BT/6L2.8/5R/ CBSDS_GN_1.3C_E77R1_GEc_ES61
AO521-105DGc	S2.SBV0D.003	WW	GCTWN	AO521-105DGc SNW7ST32SWW1 MC UMAGCcc_3 1*1G/160/BT/6L2.8/5R/ CBSDS_GN_1.3C_E77R1_GEc_ES62
AO521-12DGc	S2.SBV0D.001	WW	GCTWN	AO521-12DGc SNW7ST32SWW1 MC UMAGCcc_3 1*1G/250/6L2.8/5R/ CBSDS_GN_1.3C_F33-900_GEc_ES62
AO521-12DGc	S2.SBV0D.002	WW	WW	AO521-12DGc SNW7ST32SWW1 MC UMAGCcc_3 1*1G/250/6L2.8/5R/ CBSDS_GN_1.3C_F33-900_GEc_ES61
AO521-105DGk	S2.SBW0D.008	WW	WW	AO521-105DGk SNW7ST32SWW1 MC UMAGCki_3 1*1G/160/BT/6L2.8/5R/ CBSDS_GN_1.3C_F33-900_GEk_ES61
AO521-105DGk	S2.SBW0D.007	WW	GCTWN	AO521-105DGk SNW7ST32SWW1 MC UMAGCki_3 1*1G/160/BT/6L2.8/5R/ CBSDS_GN_1.3C_F33-900_GEk_ES62

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Model	Acer Part No	RO	Country	Description
AO521-105DGk	S2.SBW0D.006	WW	WW	AO521-105DGk SNW7ST32SWW1 MC UMAGCki_3 1*1G/160/BT/6L2.8/5R/ CBSDS_GN_1.3C_E77R1_GEk_ES61
AO521-105DGk	S2.SBW0D.005	WW	GCTWN	AO521-105DGk SNW7ST32SWW1 MC UMAGCki_3 1*1G/160/BT/6L2.8/5R/ CBSDS_GN_1.3C_E77R1_GEk_ES62
AO521-32DGk	S2.SBW0D.004	WW	WW	AO521-32DGk SNW7ST32SWW1 MC UMAGCki_3 1*1G/250/6L2.8/5R/ CBSDS_GN_1.3C_F33-900_GEk_ES61
AO521-32DGk	S2.SBW0D.003	WW	GCTWN	AO521-32DGk SNW7ST32SWW1 MC UMAGCki_3 1*1G/250/6L2.8/5R/ CBSDS_GN_1.3C_F33-900_GEk_ES62
AO521-105DGk	S2.SBW0D.002	WW	WW	AO521-105DGk SNW7ST32SWW1 MC UMAGCki_3 1*1G/250/6L2.8/5R/ CBSDS_GN_1.3C_F33-900_GEk_ES61
AO521-105DGk	S2.SBW0D.001	WW	GCTWN	AO521-105DGk SNW7ST32SWW1 MC UMAGCki_3 1*1G/250/6L2.8/5R/ CBSDS_GN_1.3C_F33-900_GEk_ES62

Model	Acer Part No	CPU	LCD	VGA Chip	VRAM 1	Memory 1	Memory 2
AO521-105Dc	LU.SBT0D.017	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105Dc	LU.SBT0D.016	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-12BDc	LU.SBT0D.015	AAK125B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-12BDc	LU.SBT0D.014	AAK125B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-1051c	LU.SBT01.002	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO2GBIII10	N
AO521-1051c	LU.SBT01.001	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO2GBIII10	N
AO521-12BDc	LU.SBT0D.003	AAK125B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105Dc	S2.SBT0D.004	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-12BDc	LU.SBT0D.013	AAK125B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-12BDc	LU.SBT0D.012	AAK125B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105Dc	LU.SBT0D.011	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-12BDc	LU.SBT0D.010	AAK125B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105Dc	LU.SBT0D.009	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105Dc	LU.SBT0D.008	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N

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Model	Acer Part No	CPU	LCD	VGA Chip	VRAM 1	Memory 1	Memory 2
AO521-105Dc	LU.SBT0D.007	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105Dc	LU.SBT0D.006	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105Dc	LU.SBT0D.005	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-12BDc	LU.SBT0D.004	AAK125B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-12BDc	LU.SBT0D.002	AAK125B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105Dc	LU.SBT0D.001	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105Hc	LU.SBT0H.001	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105Dc	S2.SBT0D.003	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105Dc	S2.SBT0D.002	AMDV105	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105Dc	S2.SBT0D.001	AMDV105	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105Dk	LU.SBS0D.065	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105Dk	LU.SBS0D.064	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-12BDk	LU.SBS0D.063	AAK125B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-12BDk	LU.SBS0D.062	AAK125B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105Dk	S2.SBS0D.004	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-12BDk	LU.SBS0D.061	AAK125B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-12BDk	LU.SBS0D.060	AAK125B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105Dk	LU.SBS0D.059	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105Dk	LU.SBS0D.058	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105Dk	LU.SBS0D.057	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105Dk	LU.SBS0D.056	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105Dk	LU.SBS0D.055	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105Dk	LU.SBS0D.054	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-12BHk	LU.SBS0H.002	AAK125B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N

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Model	Acer Part No	CPU	LCD	VGA Chip	VRAM 1	Memory 1	Memory 2
AO521-12BDk	LU.SBS0D.053	AAK125B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105Hk	LU.SBS0H.001	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105Dk	LU.SBS0D.052	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105Dk	LU.SBS0D.051	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105Dk	LU.SBS0D.050	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105Dk	LU.SBS0D.049	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105Dk	LU.SBS0D.048	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105Dk	LU.SBS0D.047	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105Dk	LU.SBS0D.046	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105Dk	LU.SBS0D.045	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105Dk	LU.SBS0D.044	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105Dk	LU.SBS0D.043	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105Dk	LU.SBS0D.042	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105Dk	LU.SBS0D.041	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105Dk	LU.SBS0D.040	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105Dk	LU.SBS0D.039	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105Dk	LU.SBS0D.038	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105Dk	LU.SBS0D.037	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105Dk	LU.SBS0D.036	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105Dk	LU.SBS0D.035	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105Dk	LU.SBS0D.034	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105Dk	LU.SBS0D.033	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105Dk	LU.SBS0D.032	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105Dk	LU.SBS0D.031	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N

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Model	Acer Part No	CPU	LCD	VGA Chip	VRAM 1	Memory 1	Memory 2
AO521-105Dk	LU.SBS0D.030	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105Dk	LU.SBS0D.029	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105Dk	LU.SBS0D.028	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105Dk	LU.SBS0D.027	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105Dk	LU.SBS0D.026	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105Dk	LU.SBS0D.025	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105Dk	LU.SBS0D.024	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105Dk	LU.SBS0D.023	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105Dk	LU.SBS0D.022	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105Dk	LU.SBS0D.021	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105Dk	LU.SBS0D.020	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105Dk	LU.SBS0D.019	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105Dk	LU.SBS0D.018	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105Dk	LU.SBS0D.017	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105Dk	LU.SBS0D.016	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105Dk	LU.SBS0D.015	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105Dk	LU.SBS0D.014	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105Dk	LU.SBS0D.013	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105Dk	LU.SBS0D.012	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105Dk	LU.SBS0D.011	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105Dk	LU.SBS0D.010	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105Dk	LU.SBS0D.009	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105Dk	LU.SBS0D.008	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105Dk	LU.SBS0D.007	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N

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Model	Acer Part No	CPU	LCD	VGA Chip	VRAM 1	Memory 1	Memory 2
AO521-105Dk	LU.SBS0D.006	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105Dk	LU.SBS0D.005	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105Dk	LU.SBS0D.004	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105Dk	LU.SBS0D.003	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105Dk	LU.SBS0D.001	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105Dk	S2.SBS0D.003	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105Dk	S2.SBS0D.001	AMDV105	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105Dk	S2.SBS0D.002	AMDV105	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105DGc	S2.SBV0D.006	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105DGc	S2.SBV0D.005	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105DGc	S2.SBV0D.004	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105DGc	S2.SBV0D.003	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-12DGc	S2.SBV0D.001	AAK125	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-12DGc	S2.SBV0D.002	AAK125	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105DGk	S2.SBW0D.008	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105DGk	S2.SBW0D.007	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105DGk	S2.SBW0D.006	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105DGk	S2.SBW0D.005	AMDV105B	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-32DGk	S2.SBW0D.004	AAK325	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-32DGk	S2.SBW0D.003	AAK325	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N

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Model	Acer Part No	CPU	LCD	VGA Chip	VRAM 1	Memory 1	Memory 2
AO521-105DGk	S2.SBW0D.002	AMDV105	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N
AO521-105DGk	S2.SBW0D.001	AMDV105	NLED10.1 WSVGAGS	UMA	N	SO1GBIII10	N

Model	Acer Part No	Memory 3	Memory 4	HDD 1(GB)	HDD 2(GB)	ODD	Media Processor
AO521-105Dc	LU.SBT0D.017	N	N	N250GB5.4KS	N	N	N
AO521-105Dc	LU.SBT0D.016	N	N	N160GB5.4KS	N	N	N
AO521-12BDc	LU.SBT0D.015	N	N	N160GB5.4KS	N	N	N
AO521-12BDc	LU.SBT0D.014	N	N	N250GB5.4KS	N	N	N
AO521-1051c	LU.SBT01.002	N	N	N250GB5.4KS	N	N	N
AO521-1051c	LU.SBT01.001	N	N	N160GB5.4KS	N	N	N
AO521-12BDc	LU.SBT0D.003	N	N	N160GB5.4KS	N	N	N
AO521-105Dc	S2.SBT0D.004	N	N	N250GB5.4KS	N	N	N
AO521-12BDc	LU.SBT0D.013	N	N	N250GB5.4KS	N	N	N
AO521-12BDc	LU.SBT0D.012	N	N	N250GB5.4KS	N	N	N
AO521-105Dc	LU.SBT0D.011	N	N	N160GB5.4KS	N	N	N
AO521-12BDc	LU.SBT0D.010	N	N	N160GB5.4KS	N	N	N
AO521-105Dc	LU.SBT0D.009	N	N	N160GB5.4KS	N	N	N
AO521-105Dc	LU.SBT0D.008	N	N	N160GB5.4KS	N	N	N
AO521-105Dc	LU.SBT0D.007	N	N	N160GB5.4KS	N	N	N
AO521-105Dc	LU.SBT0D.006	N	N	N160GB5.4KS	N	N	N
AO521-105Dc	LU.SBT0D.005	N	N	N160GB5.4KS	N	N	N
AO521-12BDc	LU.SBT0D.004	N	N	N250GB5.4KS	N	N	N
AO521-12BDc	LU.SBT0D.002	N	N	N160GB5.4KS	N	N	N
AO521-105Dc	LU.SBT0D.001	N	N	N160GB5.4KS	N	N	N

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Model	Acer Part No	Memory 3	Memory 4	HDD 1(GB)	HDD 2(GB)	ODD	Media Processor
AO521 -105Hc	LU.SBT0H.001	N	N	N160G B5.4KS	N	N	N
AO521 -105Dc	S2.SBT0D.003	N	N	N250G B5.4KS	N	N	N
AO521 -105Dc	S2.SBT0D.002	N	N	N160G B5.4KS	N	N	N
AO521 -105Dc	S2.SBT0D.001	N	N	N160G B5.4KS	N	N	N
AO521 -105Dk	LU.SBS0D.065	N	N	N250G B5.4KS	N	N	N
AO521 -105Dk	LU.SBS0D.064	N	N	N160G B5.4KS	N	N	N
AO521 -12BDk	LU.SBS0D.063	N	N	N160G B5.4KS	N	N	N
AO521 -12BDk	LU.SBS0D.062	N	N	N250G B5.4KS	N	N	N
AO521 -105Dk	S2.SBS0D.004	N	N	N250G B5.4KS	N	N	N
AO521 -12BDk	LU.SBS0D.061	N	N	N160G B5.4KS	N	N	N
AO521 -12BDk	LU.SBS0D.060	N	N	N250G B5.4KS	N	N	N
AO521 -105Dk	LU.SBS0D.059	N	N	N160G B5.4KS	N	N	N
AO521 -105Dk	LU.SBS0D.058	N	N	N160G B5.4KS	N	N	N
AO521 -105Dk	LU.SBS0D.057	N	N	N160G B5.4KS	N	N	N
AO521 -105Dk	LU.SBS0D.056	N	N	N160G B5.4KS	N	N	N
AO521 -105Dk	LU.SBS0D.055	N	N	N160G B5.4KS	N	N	N
AO521 -105Dk	LU.SBS0D.054	N	N	N160G B5.4KS	N	N	N
AO521 -12BHk	LU.SBS0H.002	N	N	N250G B5.4KS	N	N	N
AO521 -12BDk	LU.SBS0D.053	N	N	N250G B5.4KS	N	N	N
AO521 -105Hk	LU.SBS0H.001	N	N	N250G B5.4KS	N	N	N
AO521 -105Dk	LU.SBS0D.052	N	N	N250G B5.4KS	N	N	N
AO521 -105Dk	LU.SBS0D.051	N	N	N250G B5.4KS	N	N	N
AO521 -105Dk	LU.SBS0D.050	N	N	N250G B5.4KS	N	N	N
AO521 -105Dk	LU.SBS0D.049	N	N	N250G B5.4KS	N	N	N

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Model	Acer Part No	Memory 3	Memory 4	HDD 1(GB)	HDD 2(GB)	ODD	Media Processor
AO521 -105Dk	LU.SBS0D.048	N	N	N250G B5.4KS	N	N	N
AO521 -105Dk	LU.SBS0D.047	N	N	N250G B5.4KS	N	N	N
AO521 -105Dk	LU.SBS0D.046	N	N	N250G B5.4KS	N	N	N
AO521 -105Dk	LU.SBS0D.045	N	N	N250G B5.4KS	N	N	N
AO521 -105Dk	LU.SBS0D.044	N	N	N250G B5.4KS	N	N	N
AO521 -105Dk	LU.SBS0D.043	N	N	N250G B5.4KS	N	N	N
AO521 -105Dk	LU.SBS0D.042	N	N	N250G B5.4KS	N	N	N
AO521 -105Dk	LU.SBS0D.041	N	N	N250G B5.4KS	N	N	N
AO521 -105Dk	LU.SBS0D.040	N	N	N250G B5.4KS	N	N	N
AO521 -105Dk	LU.SBS0D.039	N	N	N250G B5.4KS	N	N	N
AO521 -105Dk	LU.SBS0D.038	N	N	N250G B5.4KS	N	N	N
AO521 -105Dk	LU.SBS0D.037	N	N	N250G B5.4KS	N	N	N
AO521 -105Dk	LU.SBS0D.036	N	N	N250G B5.4KS	N	N	N
AO521 -105Dk	LU.SBS0D.035	N	N	N250G B5.4KS	N	N	N
AO521 -105Dk	LU.SBS0D.034	N	N	N250G B5.4KS	N	N	N
AO521 -105Dk	LU.SBS0D.033	N	N	N250G B5.4KS	N	N	N
AO521 -105Dk	LU.SBS0D.032	N	N	N250G B5.4KS	N	N	N
AO521 -105Dk	LU.SBS0D.031	N	N	N250G B5.4KS	N	N	N
AO521 -105Dk	LU.SBS0D.030	N	N	N250G B5.4KS	N	N	N
AO521 -105Dk	LU.SBS0D.029	N	N	N250G B5.4KS	N	N	N
AO521 -105Dk	LU.SBS0D.028	N	N	N250G B5.4KS	N	N	N
AO521 -105Dk	LU.SBS0D.027	N	N	N250G B5.4KS	N	N	N
AO521 -105Dk	LU.SBS0D.026	N	N	N250G B5.4KS	N	N	N
AO521 -105Dk	LU.SBS0D.025	N	N	N250G B5.4KS	N	N	N

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Model	Acer Part No	Memory 3	Memory 4	HDD 1(GB)	HDD 2(GB)	ODD	Media Processor
AO521 -105Dk	LU.SBS0D.024	N	N	N250G B5.4KS	N	N	N
AO521 -105Dk	LU.SBS0D.023	N	N	N250G B5.4KS	N	N	N
AO521 -105Dk	LU.SBS0D.022	N	N	N250G B5.4KS	N	N	N
AO521 -105Dk	LU.SBS0D.021	N	N	N250G B5.4KS	N	N	N
AO521 -105Dk	LU.SBS0D.020	N	N	N250G B5.4KS	N	N	N
AO521 -105Dk	LU.SBS0D.019	N	N	N250G B5.4KS	N	N	N
AO521 -105Dk	LU.SBS0D.018	N	N	N250G B5.4KS	N	N	N
AO521 -105Dk	LU.SBS0D.017	N	N	N250G B5.4KS	N	N	N
AO521 -105Dk	LU.SBS0D.016	N	N	N250G B5.4KS	N	N	N
AO521 -105Dk	LU.SBS0D.015	N	N	N250G B5.4KS	N	N	N
AO521 -105Dk	LU.SBS0D.014	N	N	N250G B5.4KS	N	N	N
AO521 -105Dk	LU.SBS0D.013	N	N	N250G B5.4KS	N	N	N
AO521 -105Dk	LU.SBS0D.012	N	N	N250G B5.4KS	N	N	N
AO521 -105Dk	LU.SBS0D.011	N	N	N250G B5.4KS	N	N	N
AO521 -105Dk	LU.SBS0D.010	N	N	N250G B5.4KS	N	N	N
AO521 -105Dk	LU.SBS0D.009	N	N	N250G B5.4KS	N	N	N
AO521 -105Dk	LU.SBS0D.008	N	N	N250G B5.4KS	N	N	N
AO521 -105Dk	LU.SBS0D.007	N	N	N250G B5.4KS	N	N	N
AO521 -105Dk	LU.SBS0D.006	N	N	N250G B5.4KS	N	N	N
AO521 -105Dk	LU.SBS0D.005	N	N	N250G B5.4KS	N	N	N
AO521 -105Dk	LU.SBS0D.004	N	N	N250G B5.4KS	N	N	N
AO521 -105Dk	LU.SBS0D.003	N	N	N250G B5.4KS	N	N	N
AO521 -105Dk	LU.SBS0D.001	N	N	N250G B5.4KS	N	N	N
AO521 -105Dk	S2.SBS0D.003	N	N	N250G B5.4KS	N	N	N

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Model	Acer Part No	Memory 3	Memory 4	HDD 1(GB)	HDD 2(GB)	ODD	Media Processor
AO521-105Dk	S2.SBS0D.001	N	N	N160G B5.4KS	N	N	N
AO521-105Dk	S2.SBS0D.002	N	N	N160G B5.4KS	N	N	N
AO521-105DGc	S2.SBV0D.006	N	N	N160G B5.4KS	N	N	N
AO521-105DGc	S2.SBV0D.005	N	N	N160G B5.4KS	N	N	N
AO521-105DGc	S2.SBV0D.004	N	N	N160G B5.4KS	N	N	N
AO521-105DGc	S2.SBV0D.003	N	N	N160G B5.4KS	N	N	N
AO521-12DGc	S2.SBV0D.001	N	N	N250G B5.4KS	N	N	N
AO521-12DGc	S2.SBV0D.002	N	N	N250G B5.4KS	N	N	N
AO521-105DGk	S2.SBW0D.008	N	N	N160G B5.4KS	N	N	N
AO521-105DGk	S2.SBW0D.007	N	N	N160G B5.4KS	N	N	N
AO521-105DGk	S2.SBW0D.006	N	N	N160G B5.4KS	N	N	N
AO521-105DGk	S2.SBW0D.005	N	N	N160G B5.4KS	N	N	N
AO521-32DGk	S2.SBW0D.004	N	N	N250G B5.4KS	N	N	N
AO521-32DGk	S2.SBW0D.003	N	N	N250G B5.4KS	N	N	N
AO521-105DGk	S2.SBW0D.002	N	N	N250G B5.4KS	N	N	N

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Model	Acer Part No	Memory 3	Memory 4	HDD 1(GB)	HDD 2(GB)	ODD	Media Processor
AO521-105DGk	S2.SBW0D.001	N	N	N250GB5.4KS	N	N	N

Model	Acer Part No	Extra SW1	Card Reader	Wireless LAN1	Bluetooth
AO521-105Dc	LU.SBT0D.017	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	BT 2.1
AO521-105Dc	LU.SBT0D.016	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	BT 2.1
AO521-12BDc	LU.SBT0D.015	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	BT 2.1
AO521-12BDc	LU.SBT0D.014	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	BT 2.1
AO521-1051c	LU.SBT01.002	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	N
AO521-1051c	LU.SBT01.001	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	N
AO521-12BDc	LU.SBT0D.003	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	N
AO521-105Dc	S2.SBT0D.004	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	BT 2.1
AO521-12BDc	LU.SBT0D.013	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	N
AO521-12BDc	LU.SBT0D.012	McAfee	5 in 1-Build in	3rd WiFi BG	BT 2.1
AO521-105Dc	LU.SBT0D.011	McAfee	5 in 1-Build in	3rd WiFi BG	N
AO521-12BDc	LU.SBT0D.010	McAfee	5 in 1-Build in	3rd WiFi BG	N
AO521-105Dc	LU.SBT0D.009	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	N
AO521-105Dc	LU.SBT0D.008	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	N
AO521-105Dc	LU.SBT0D.007	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	N
AO521-105Dc	LU.SBT0D.006	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	N
AO521-105Dc	LU.SBT0D.005	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	N
AO521-12BDc	LU.SBT0D.004	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	BT 2.1
AO521-12BDc	LU.SBT0D.002	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	BT 2.1
AO521-105Dc	LU.SBT0D.001	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	BT 2.1
AO521-105Hc	LU.SBT0H.001	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	N
AO521-105Dc	S2.SBT0D.003	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	BT 2.1
AO521-105Dc	S2.SBT0D.002	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	N
AO521-105Dc	S2.SBT0D.001	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	N
AO521-105Dk	LU.SBS0D.065	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	BT 2.1
AO521-105Dk	LU.SBS0D.064	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	BT 2.1
AO521-12BDk	LU.SBS0D.063	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	BT 2.1
AO521-12BDk	LU.SBS0D.062	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	BT 2.1
AO521-105Dk	S2.SBS0D.004	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	BT 2.1
AO521-12BDk	LU.SBS0D.061	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	N
AO521-12BDk	LU.SBS0D.060	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	N
AO521-105Dk	LU.SBS0D.059	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	N
AO521-105Dk	LU.SBS0D.058	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	N
AO521-105Dk	LU.SBS0D.057	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	N
AO521-105Dk	LU.SBS0D.056	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	N
AO521-105Dk	LU.SBS0D.055	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	N
AO521-105Dk	LU.SBS0D.054	McAfee	5 in 1-Build in	3rd WiFi BG	N

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Model	Acer Part No	Extra SW1	Card Reader	Wireless LAN1	Bluetooth
AO521-12BHk	LU.SBS0H.002	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	N
AO521-12BDk	LU.SBS0D.053	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	BT 2.1
AO521-105Hk	LU.SBS0H.001	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	N
AO521-105Dk	LU.SBS0D.052	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	N
AO521-105Dk	LU.SBS0D.051	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	N
AO521-105Dk	LU.SBS0D.050	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	N
AO521-105Dk	LU.SBS0D.049	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	N
AO521-105Dk	LU.SBS0D.048	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	N
AO521-105Dk	LU.SBS0D.047	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	N
AO521-105Dk	LU.SBS0D.046	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	N
AO521-105Dk	LU.SBS0D.045	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	N
AO521-105Dk	LU.SBS0D.044	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	N
AO521-105Dk	LU.SBS0D.043	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	N
AO521-105Dk	LU.SBS0D.042	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	N
AO521-105Dk	LU.SBS0D.041	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	N
AO521-105Dk	LU.SBS0D.040	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	N
AO521-105Dk	LU.SBS0D.039	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	N
AO521-105Dk	LU.SBS0D.038	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	N
AO521-105Dk	LU.SBS0D.037	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	N
AO521-105Dk	LU.SBS0D.036	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	N
AO521-105Dk	LU.SBS0D.035	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	N
AO521-105Dk	LU.SBS0D.034	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	N
AO521-105Dk	LU.SBS0D.033	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	N
AO521-105Dk	LU.SBS0D.032	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	N
AO521-105Dk	LU.SBS0D.031	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	N
AO521-105Dk	LU.SBS0D.030	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	N
AO521-105Dk	LU.SBS0D.029	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	N
AO521-105Dk	LU.SBS0D.028	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	N
AO521-105Dk	LU.SBS0D.027	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	N
AO521-105Dk	LU.SBS0D.026	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	N
AO521-105Dk	LU.SBS0D.025	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	N
AO521-105Dk	LU.SBS0D.024	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	N
AO521-105Dk	LU.SBS0D.023	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	N
AO521-105Dk	LU.SBS0D.022	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	N
AO521-105Dk	LU.SBS0D.021	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	N
AO521-105Dk	LU.SBS0D.020	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	N
AO521-105Dk	LU.SBS0D.019	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	N
AO521-105Dk	LU.SBS0D.018	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	N
AO521-105Dk	LU.SBS0D.017	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	N
AO521-105Dk	LU.SBS0D.016	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	N
AO521-105Dk	LU.SBS0D.015	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	N
AO521-105Dk	LU.SBS0D.014	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	N
AO521-105Dk	LU.SBS0D.013	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	N

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Model	Acer Part No	Extra SW1	Card Reader	Wireless LAN1	Bluetooth
AO521-105Dk	LU.SBS0D.012	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	N
AO521-105Dk	LU.SBS0D.011	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	N
AO521-105Dk	LU.SBS0D.010	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	N
AO521-105Dk	LU.SBS0D.009	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	N
AO521-105Dk	LU.SBS0D.008	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	N
AO521-105Dk	LU.SBS0D.007	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	N
AO521-105Dk	LU.SBS0D.006	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	N
AO521-105Dk	LU.SBS0D.005	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	N
AO521-105Dk	LU.SBS0D.004	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	N
AO521-105Dk	LU.SBS0D.003	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	N
AO521-105Dk	LU.SBS0D.001	McAfee	5 in 1-Build in	3rd WiFi BG	N
AO521-105Dk	S2.SBS0D.003	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	BT 2.1
AO521-105Dk	S2.SBS0D.001	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	N
AO521-105Dk	S2.SBS0D.002	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	N
AO521-105DGc	S2.SBV0D.006	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	BT 2.1
AO521-105DGc	S2.SBV0D.005	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	BT 2.1
AO521-105DGc	S2.SBV0D.004	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	BT 2.1
AO521-105DGc	S2.SBV0D.003	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	BT 2.1
AO521-12DGc	S2.SBV0D.001	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	N
AO521-12DGc	S2.SBV0D.002	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	N
AO521-105DGk	S2.SBW0D.008	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	BT 2.1
AO521-105DGk	S2.SBW0D.007	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	BT 2.1
AO521-105DGk	S2.SBW0D.006	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	BT 2.1
AO521-105DGk	S2.SBW0D.005	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	BT 2.1
AO521-32DGk	S2.SBW0D.004	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	N
AO521-32DGk	S2.SBW0D.003	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	N
AO521-105DGk	S2.SBW0D.002	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	N
AO521-105DGk	S2.SBW0D.001	McAfee	5 in 1-Build in	3rd WiFi 1x1 BGN	N

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Test Compatible Components

This computer's compatibility is tested and verified by Acer's internal testing department. All of its system functions are tested under Windows® 7 environment.

Refer to the following lists for components, adapter cards, and peripherals which have passed these tests. Regarding configuration, combination and test procedures, please refer to the Compatibility Test Report released by the Acer Mobile System Testing Department.

BRAND	Type	Description
3G		
	EM770W-Rev1	EM770W-Rev1
Ericsson	F3307-900MHz	Ericsson F3307-900MHz
A cover		
	Black IMR	Black IMR
	Brown IMR	Brown IMR
Accessory		
	Jasper Bag	Jasper Bag
Adapter		
DELTA	40W	Adapter DELTA 40W 19V 1.7x5.5x11 Black ADP-40 TH AA, LV5 wall-mounted, OBL LF
Leader	40W	Adapter Leader 40W 19V 1.7x5.5x11 Black IU40-11190-011S, wall-mounted, LV5+OBL LF
Audio Codec		
Conexant	CX20672-11Z	Conexant CX20672-11Z
B cover		
	Mirror w/Camera	Mirror w/Camera
Battery		
PANASONIC	6CELL2.2	Battery PANASONIC UM-2009E Li-Ion 3S2P PANASONIC 6 cell 4400mAh Main COMMON ID:UM09E51
SANYO	6CELL2.2	Battery SANYO UM-2009E Li-Ion 3S2P SANYO 6 cell 4400mAh Main COMMON ID: UM09E31
SANYO	6CELL2.8	Battery SANYO UM-2009E Li-Ion 3S2P SANYO 6 cell 5600mAh Main COMMON ID:UM09E36
SIMPLO	6CELL2.2	Battery SIMPLO UM-2009E Li-Ion 3S2P PANASONIC 6 cell 4400mAh Main COMMON ID:UM09E71
SIMPLO	6CELL2.2	Battery SIMPLO UM-2009E Li-Ion 3S2P PANASONIC 6 cell 4400mAh Main COMMON ID:UM09E71
SIMPLO	6CELL2.8	Battery SIMPLO UM-2009E Li-Ion 3S2P SAMSUNG 6 cell 5600mAh Main COMMON ID:UM09E70
SIMPLO	6CELL2.8	Battery SIMPLO UM-2009E Li-Ion 3S2P SAMSUNG 6 cell 5600mAh Main COMMON ID:UM09E70
Bluetooth		
Foxconn	BT 2.1	Foxconn Bluetooth BRM 2070 (T77H114.01)
Camera		
Chicony	1.3M	Chicony 1.3M CH9665SN (CNF9157)

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BRAND	Type	Description
Liteon	1.3M	Liteon 1.3M LT9665AL (09P2SF119)
Suyin	1.3M	Suyin 1.3M SY9665SN
Card Reader		
	5 in 1-Build in	5 in 1-Build in MS, MS Pro, SD, SC, XD
CPU		
AMDISS	AAK125B	CPU AMD AthlonII K125 BGA 1.7G 1M 12W, Neo
AMDISS	AMDV105B	CPU AMD - V105 BGA 1.2G 512K 1C, 9W
HDD		
HGST	N160GB5.4KS	HDD HGST 2.5" 5400rpm 160GB HTS545016B9A300 Panther B SATA LF F/W:C60F Disk imbalance criteria = 0.014g-cm
HGST	N250GB5.4KS	HDD HGST 2.5" 5400rpm 250GB HTS545025B9A300 Panther B SATA LF F/W:C60F Disk imbalance criteria = 0.014g-cm
SEAGATE	N160GB5.4KS	HDD SEAGATE 2.5" 5400rpm 160GB ST9160314AS Wyatt SATA LF F/W:0001SDM1
SEAGATE	N160GB5.4KS	HDD SEAGATE 2.5" 5400rpm 160GB ST9160314AS Wyatt SATA LF F/W:0001SDM1
SEAGATE	N250GB5.4KS	HDD SEAGATE 2.5" 5400rpm 250GB ST9250315AS Wyatt SATA LF F/W:0001SDM1
SEAGATE	N250GB5.4KS	HDD SEAGATE 2.5" 5400rpm 250GB ST9250315AS Wyatt SATA LF F/W:0001SDM1
TOSHIBA	N160GB5.4KS	HDD TOSHIBA 2.5" 5400rpm 160GB MK1665GSX, Capricorn BS, 320G/P SATA 8MB LF F/W:GJ002J
TOSHIBA	N250GB5.4KS	HDD TOSHIBA 2.5" 5400rpm 250GB MK2565GSX, Capricorn BS, 320G/P SATA 8MB LF F/W:GJ002J
WD	N160GB5.4KS	HDD WD 2.5" 5400rpm 160GB WD1600BEVT-22A23T0 , WD, ML320S SATA 8MB LF F/W:01.01A01
WD	N250GB5.4KS	HDD WD 2.5" 5400rpm 250GB WD2500BEVT-22A23T0, WD, ML320S SATA 8MB LF F/W:01.01A01.
Keyboard		
ACER	NT0T_A10B	Keyboard ACER NT0T_A10B NT0T Internal 10 Standard Black Y2010 Acer Legend Texture
LAN		
Atheros	AR8152L	Atheros AR8152L
LCD		
CMO	NLED10.1WSVG AGS	LED LCD CMO 10.1" WSVGA Glare N101L6-L0D LF 200nit 10ms 500:1
LPL	NLED10.1WSVG AGS	LED LCD LPL 10.1" WSVGA Glare LP101WSB-TLN1 LF 200nit 16ms 400:1
SAMSUNG	NLED10.1WSVG AGS	LED LCD SAMSUNG 10.1" WSVGA Glare LTN101NT05-A01 LF 200nit 16ms 300:1
MEM		
NONE	SO2GBIII10	Memory NONE SO-DIMM DDRIII 1066 2GB dummy 1066 LF
SAMSUNG	SO1GBIII10	Memory SAMSUNG SO-DIMM DDRIII 1066 1GB M471B2873EH1-CF8 LF 64*16 0.055um
Modem		
	External USB Lite+LSI modem	External USB Lite+LSI modem

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BRAND	Type	Description
NB Chipset		
AMD	AMDRS880M	AMD RS880M w/ HDCP EEPROM
SB Chipset		
AMD	AMDSB820M	AMD SB820M
Side Port		
ATI	VR1GbIII8	VRAM ATI Graphic DDRIII 800 1Gb 23BY2387MB-12 LF+HF
HYNIX	VR1GbIII8	VRAM HYNIX Graphic DDRIII 800 1Gb H5TQ1G63BFR-12C LF
SAMSUNG	VR1GbIII8	VRAM SAMSUNG Graphic DDRIII 800 1Gb K4W1G1646E-HC12 LF
Software		
	McAfee	Antivirus application McAfee
VGA Chip		
None	UMA	UMA (AMD)
WiFi Antenna		
WNC	PIFA	PIFA
Wireless LAN		
Foxconn	3rd WiFi 1x1 BGN	Foxconn Wirelss LAN Atheros HB95 1x1 BGN (HM) T77H121.01
Foxconn	3rd WiFi 1x1 BGN	Foxconn Wirelss LAN Atheros HB95 1x1 BGN (HM) T77H121.01
Liteon	3rd WiFi 1x1 BGN	Liteon Wireless LAN Atheros HB95 1x1 BGN (HM) WN6601AH

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Online Support Information

This section describes online technical support services available to help you repair your Acer Systems.

If you are a distributor, dealer, ASP or TPM, please refer your technical queries to your local Acer branch office. Acer Branch Offices and Regional Business Units may access our website. However some information sources will require a user i.d. and password. These can be obtained directly from Acer CSD Taiwan.

Acer's Website offers you convenient and valuable support resources whenever you need them.

In the Technical Information section you can download information on all of Acer's Notebook, Desktop and Server models including:

- Service guides for all models
- User's manuals
- BIOS updates
- Software utilities
- Spare parts lists
- TABs (Technical Announcement Bulletin)

For these purposes, we have included an Acrobat File to facilitate the problem-free downloading of our technical material.

Also contained on this website are:

- Detailed information on Acer's International Traveler's Warranty (ITW)
- Returned material authorization procedures
- An overview of all the support services we offer, accompanied by a list of telephone, fax and email contacts for all your technical queries.

We are always looking for ways to optimize and improve our services, so if you have any suggestions or comments, please do not hesitate to communicate these to us.

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